

LIST OF SKELETONS + CRANIA in the SECTION OF COMPARATIVE ANATOMY in the ANN by H.C. YARROW
MANUSCRIPT (MM 9193)

SECT 5

LIST OF SKELETONS AND CRANIA

IN THE

MM 9193

SECTION OF COMPARATIVE ANATOMY

OF THE

UNITED STATES ARMY MEDICAL MUSEUM,

Washington D.C.

Prepared under the direction of
Brig. Gen. Col. J. J. Woodward.

Surgeon U.S. Army

by
Wm. H. C. Garrow

Acting Assistant Surgeon U.S.A.

Army Med. Museum
Wash - D.C.

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ADVERTISEMENT.

This list of the skeletons and crania in the Section of Comparative Anatomy of the United States Army Medical Museum was prepared by Dr. H. C. YARROW, and

was originally intended for distribution, during the International Exposition of 1876 at Philadelphia Penna

among naturalists and others interested in comparative anatomy, for the purpose of showing the deficiencies of our collection, and soliciting contributions.

It has now been thoroughly revised & improved it is thought, by the addition of the names of the donors & the localities from whence the specimens were procured, whenever it has been possible to obtain the data. A list of monstrosities & other specimens has also been added.

This collection constitutes one section of the Army Medical Museum, which, at present, is divided into six sections, as follows:—

In charge of Assistant Surgeon G. A. OTIS, U. S. A., Curator,

Surgical section	. . . . .	6539 specimens.
Anatomical section	. . . . .	1254 "
Miscellaneous section	. . . . .	240 "

In charge of Assistant Surgeon J. J. WOODWARD, U. S. A. :—

Medical section	. . . . .	1279 specimens.
Microscopical section	. . . . .	7275 "
Comparative Anatomy section	. . . . .	1622 "

The Army Medical Museum was created primarily for the purpose of preserving specimens illustrative of the wounds and diseases which produce death and disability during war, with the view of thereby facilitating the study of methods for diminishing mortality and alleviating suffering among soldiers. It is now the desire of the Surgeon General that, so far as the means placed at his disposal will permit, the collection shall be extended so as to embrace all forms of injuries and disease, so that it shall eventually become a general Pathological Museum, accessible for study to all medical men who are prosecuting original inquiries. Of the great usefulness of such a collection, it is unnecessary here to speak, or to point out how vain all hopes have proved that any large collection of this kind can be created except with the aid

and support of government. A cabinet of comparative anatomy furnishes the means for useful collateral studies, subordinate to the general purposes of a Pathological Museum: hence, such cabinets are found in connection with most of the great Pathological Collections of Europe, and one has been commenced at the Army Medical Museum.

The appropriations for the support of the Museum have been hitherto too limited to permit the expenditure of any considerable sum on the collection of comparative anatomy. The specimens enumerated in the following list were for the most part collected by medical and other officers of the army on duty at frontier posts. For the present, any increase of the collection can only be expected from such donations, which will thankfully be received from army officers or others, or from exchanges of duplicate specimens, which, however, as yet are only possible to a very limited extent.

Specimens presented need not be thoroughly cleaned and mounted. This laborious work is done in the Museum by Dr. F. SCHAFHIRT, by whom the greater part of the specimens enumerated in the following list were prepared. It will be sufficient, in the case of large skeletons or crania, if the flesh is roughly dissected from bone and the viscera, brain, &c., removed. The preparation thus prepared can be packed in a mixture of sawdust and salt, or simply dried, for transportation. Small animals are best preserved in alcohol, in which case an incision should be made along the middle line of the abdomen to give the alcohol access to the viscera.

It is absolutely ^{essence} that each specimen should be carefully labelled with "locality" where found, "date" of collection, & "name" of collector; the "sex" should also be given if possible. Without this information specimens lose much of their value, as many of the characters upon which species are based are correlated with their geographical distribution.

J. J. WOODWARD,

~~Assistant~~ Surgeon U. S. A.

In charge of the Medical, Microscopical, and Comparative Anatomy Sections, Army Medical Museum.

LIST OF CRANIA AND SKELETONS OF NORTH AMERICAN MAMMALS.

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Note.—In the preparation of this list the classification adopted is substantially the same as that of Dr. Theo. Gill in his paper entitled "Arrangement of the Families of Mammals," Smithsonian Miscellaneous Collections, No. 230, 1872, and the nomenclature of the species is in accordance, for the most part, with the more recent views of prominent American Mammalogists.

CLASS **MAMMALIA.**

SUB-CLASS **Placentalia.**

SUPER-ORDER **EDUCABILIA.**

ORDER **Feræ.**

SUB-ORDER **FISSIPEDIA.**

Family **FELIDÆ**: Cats, etc.

Sub-Family *Felinæ*: Typical Cats.

Lynx rufus (Guldenstädt), Raf. Wild Cat.

Date	Cran.	Skel.	Sex.	Local.	Coll.	Donor.
1870	952			Fort Lyon Colorado	Dr. H. R. Tilton ^{u.s.a.}	Dr. H. R. Tilton ^{u.s.a.}
1873	1059			Louisiana		Dr. B. G. D. Drvin ^{u.s.a.}
	1160					Dr. B. E. Feyer ^{u.s.a.}

Lynx rufus maculatus, Cs. and Yar. Texas Wild Cat.

Date	Cran.	Skel.	Sex.	Local.	Coll.	Donor.
1873	1383 1080			New Mexico	H. W. Henshaw	Dr. J. M. Wheeler ^{u.s.a.}
1868		793		Fort-Stinson Washington	Wm. W. Matthews	Dr. C. C. Gray ^{u.s.a.}

Lynx rufus fasciatus, Cs. and Yar. Red Cat.

Date	Cran.	Skel.	Sex.	Local.	Coll.	Donor.
Aug 1873	1396			White Mt. Arizona	Dr. C. G. Jewett ^{very}	Dr. J. M. Wheeler ^{u.s.a.}

Lynx canadensis (Geoff and Desm.), Raf. Canada Lynx.

Cran.	Skel.	Sex.	Local.	Coll.	Donor.
180		♀			Purchased

H.

Felis concolor, Linn. Panther; Painter; Puma; Cougar;
American or California Lion.

Date	Cran.	Skel.	Sex.	Local.	Coll.	Donor.
	178					Purchased.
	179					"
	828					Dr. W. M. Holton U.S.A.
1849	954			Fort Da Russa Wyoming	Dr C. H. Alden ^{U.S.A.}	Dr. C. H. Alden U.S.A.
1869		631		Fort Griffin Texas.	Dr H. Mc Elderry ^{U.S.A.}	Dr. H. Mc Elderry "

Felis onca, Linn. Jaguar; Mexican Tiger.

Cran.	Skel.	Sex.	Local.	Coll.	Donor.
1412			Austin Texas		Col. H. B. Clitz U.S.A.

Family CANIDÆ: Dogs, etc.
Sub-Family Canina: Wolves.
Canis lupus occidentalis, Cs. and Yar. American Wolf;
Timber or Buffalo Wolf; Lobo of the Mexicans.

Date	Cran.	Skel.	Sex.	Local.	Coll.	Donor.
	184					Purchased.
	185					"
1868	713			Gr Richardson Texas	Dr B. B. Miles	Dr. B. B. Miles
	714			"	"	U.S. Army. Boone. Com
1873	1417			Ching Mts. Mont.	Dr E. Coues	Dr. E. Coues U.S.A.
Date	1418			"	"	" " " "
July 1872	1235			Indian Spring Utah	Dr. H. C. Yarrow	Dr. G. M. Wheeler U.S.A.
1868		712		Fort Stevenson Neb.	Dr W. Matthews	Dr C. C. Gray U.S.A.

Canis latrans, Say. *Coyote; Prairie Wolf.*

Date	Cran.	Skel.	Sex.	Local.	Coll.	Donor.
	186					Purchased.
1868	710			St. Steinson W. Va.	W. W. Mearns	Dr. C. C. Gray, U.S.A.
1868	711			"	"	" " " " " "
1868	715		♂	St. Richardson Texas	Dr. B. B. Miles	Dr. B. B. Miles.
1872	1323		♂	Fort Randall S. Dakota	Dr. E. C. Cope	Dr. E. Cope, U.S.A.
"	1324		♀	"	"	" " " " " "
		907	♂	Wyoming Fort D. A. Russell	Dr. C. H. Alden	Dr. C. H. Alden U.S.A.
		1084				Unknown.

Sub-Family Vulpine: Foxes.

Vulpes vulgaris pennsylvanicus, Cs. *Red Fox.*

	Cran.	Skel.	Sex.	Local.	Coll.	Donor.
One long	189					Purchased
	190					"
	191					"
	192					"
		99	♂			"

Vulpes macrourus, Baird. *Prairie Fox.*

	Cran.	Skel.	Sex.	Local.	Coll.	Donor.
	1161					Dr. B. E. Fenger, U.S.A.
		1196				Dr. J. M. Brewer, U.S.A.

Date	Cran.	Skel.	Sex.	Local.	Coll.	Donor.
1870	955	1314		Fort Lyon Colorado	Wm. H. R. Tilton ^{usa}	Wm. H. R. Tilton. u.s.a. Wm. E. Conner. u.s.a.

Urocyon

Vulpes littoralis, Baird. *Island Fox*.

Date	Cran.	Skel.	Sex.	Local.	Coll.	Donor.
June 1875	1546			Sanza Cruz Is. California.	June 1875 H. W. Henshaw	Dr. G. M. Wheeler u.s.a.
"		1571		"	"	"

Urocyon cinereo-argentatus (Schreber), Cs. *Gray Fox*.

Cran.	Skel.	Sex.	Local.	Coll.	Donor.
193					Purchased
194					"
195					"
196					"

Family MUSTELIDÆ: *Weasels*, etc.

Sub-Family *Mustelinae*: *Martins*.

Mustela pennanti, Erxl. *Fisher*; *Black Cat*.

Cran.	Skel.	Sex.	Local.	Coll.	Donor.
198					Purchased.

Cran.	Skel.	Sex.	Local.	Coll.	Donor.
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197
957

Purchased
Smithsonian
Institution

Putorius longicauda, Rich. *Long-tailed Ermine.*

Date	Cran.	Skel.	Sex.	Local.	Coll.	Donor.
1868	852		♂	Fort Buford Wash. D.C.		Dr. J. P. Kimball U.S.A.
	1424	2058		Fort Lincoln Dak.		Dr. E. Cones U.S.A.
May 1874						Dr. C. E. M. Chung U.S.A.

Putorius erminea, (Linn.), Cuv. *White Weasel; Ermine.*

Date	Cran.	Skel.	Sex.	Local.	Coll.	Donor.
	1058					Dr. J. P. Kimball U.S.A.
1868		722		Fort Buford Dacotah	Dr. J. P. Kimball U.S.A.	" " " " "
1870		1075	♂	Medicine Bow Wyo.	Dr. J. B. Girard U.S.A.	Dr. J. B. Girard U.S.A.

Putorius vison, Rich. *Brown Mink.*

Date	Cran.	Skel.	Sex.	Local.	Coll.	Donor.
	199					Purchased
	595					"
1873	1315					Dr. E. Cones U.S.A.
	1316					" " " " "

Cran.	Skel.	Sex.	Local.	Coll.	Donor.
200					Purchased.

Sub-Family *Melinae*: Badgers.
Taxidea americana (Bodd), Baird. *Missouri Badger*.

Date	Cran.	Skel.	Sex.	Local.	Coll.	Donor.
	203					Purchased
	612					"
	834			Kansas		Dr. G. M. Stenberg u.s.a.
1870	950			Fort Lyon Colorado	Dr. H. R. Tilton u.s.a.	Dr. H. R. Tilton u.s.a.
1873	1419		♂	Miss. Riv. Minn.	Dr. E. Coues u.s.a.	Dr. E. Coues u.s.a.
July 1872	1236			Gano's Station Utah.	Dr. H. R. Tilton	Dr. J. M. Wheeler u.s.a.
	1244					Dr. A. J. Filch
1868		795		Fort Stevenson Dakota		Dr. C. C. Gray. u.s.a.

Sub-Family *Mephitinae*: Skunks.
Mephitis mephitis (Shaw), Baird. *American Skunk*.

Date	Cran.	Skel.	Sex.	Local.	Coll.	Donor.
	825					Dr. Geo. A. Otis. u.s.a.
	202					Purchased
1868	704			Fort Richardson Texas.		Dr. B. B. Miles
1870	956			Fort Lyon Colorado	Dr. H. R. Tilton u.s.a.	Dr. H. R. Tilton u.s.a.
	1193					Dr. J. W. Brewer. u.s.a.
		161				Purchased
Sept 30 1878	2185			Fort-Sisleton Dak. Hosp. Sten.	Dr. P. C. W. Kitching u.s.a.	
Jan 1878	2084			Camp Supply Ind. Tenn.		

Sub-Family *Lutrinae*: Otters.
Lutra canadensis (Turton), Cuv. *American Otter*.

Date	Cran.	Skel.	Sex.	Local.	Coll.	Donor.
	201					Purchased.
1870	951			Fort Lyon Colorado	Dr. H. R. Tilton u.s.a.	Dr. H. R. Tilton u.s.a.

Family URSIDÆ: Bears.
Ursus arctos horribilis (Ord.), Cs. and Yar. Grizzly Bear.

Date	Cran.	Skel.	Sex.	Local.	Coll.	Donor.
	205					Purchased
	672					Dr. R. K. Stone.
1868	1006			Fort Buford		Dr. J. P. Kimball U.S.A.
Sept	1043			Dacotah		
1879				Fort Fred Steele		
June				Wyoming Terr.	Wm J. B. Girard U.S.A.	Wm. J. B. Girard U.S.A.
Sept 1879		1042	♀	"	"	Dr. J. B. Girard U.S.A.
June 1879	2240			Montana	W. S. G. P. R. Brown	U.S.A.

Ursus americanus, Pallas. Black Bear.

Date	Cran.	Skel.	Sex.	Local.	Coll.	Donor.
	206		♂			Purchased
	207		♀			"
	208		♀			"
	209					"
	210					"
1873	1380			Gila River.	E. F. Howell	Dr. J. M. Wheeler U.S.A.
Aug				New Mexico.		
1873	1381			Camp Apache	H. W. Henshaw	" " " " "
		Embryos.		Arizona		
		1200				Hosp. Stm. Krüger U.S.A.
1872		1210	♂	Fort Rice	Wm. Dunning	Wm C. E. Goodland U.S.A.
				Dakota		Wm. A. J. Fitch.
		1243				James Shields.
		2463				

Thalarectos maritimus (Linn.), Gray. White or Polar Bear.

Cran.	Skel.	Sex.	Local.	Coll.	Donor.
211					Purchased

Family PROCYONIDÆ: Raccoons, etc.
Sub-Family Procyoninae: Typical Raccoons.
Procyon lotor (Linn.), Starr. Common Raccoon.

Date	Cran.	Skel.	Sex.	Local.	Coll.	Donor.
1873	204					Purchased
	613					Priv. A. K. Ferris, W.S.A.
	1060			Louisiana		Dr B. J. D. Drinn W.S.A.
		134	♂			Purchased
1878	2077	2078		St. James Kansas Camp Supply Ind. Terr.	A. A. Surr. F. H. Atkins Dr. P. E. Wilson W.S.A.	

SUB-ORDER PINNIPEDIA.
Family OTARIIDÆ: Eared Seals.
Callirhinus ursinus (Schreber), Gray. Fur Seal.

Date	Cran.	Skel.	Sex.	Local.	Coll.	Donor.
1870		1057	♂	St George Is- Alaska	Dr J. A. Tanner	Dr. J. A. Tanner.

Eumetopias stelleri (Fischer), Gray. Sea Lion.

Peters

Date	Cran.	Skel.	Sex.	Local.	Coll.	Donor.
1870	1048			St George Is- Alaska	Dr J. A. Tanner	Dr. J. A. Tanner.

Zalophus gilliespii (MacBain), Gill. Sea Dog.

Cran.	Skel.	Sex.	Local.	Coll.	Donor.
261					Purchased

Family PHOCIDÆ: Hair Seals.
Sub-Family Phocinae.
Phoca vitulina, Linn. Common Seal; Harbor Seal.

Cran.	Skel.	Sex.	Local.	Coll.	Donor.
259					Purchased

Erignathus barbatus (O. Fabr.), Gill. Square-Flipper Seal.

Cran.	Skel.	Sex.	Local.	Coll.	Donor.
258					Purchased.

Sub-Family Cystophorinae: Crested Seals.
Cystophora cristata (Erxl.), Nilsson. Hooded Seal.

Cran.	Skel.	Sex.	Local.	Coll.	Donor.
260					Purchased.

Family ROSMARIDÆ: Walruses.
Rosmarus obesus (Illiger), Gill. Atlantic Walrus.

Date	Cran.	Skel.	Sex.	Local.	Coll.	Donor.
1868	888			Honolulu		Dr. M. Grew.
1870		1053	♂	Sandwich Isls St George Is Alaska		Dr J. A. Tourner.

ORDER Ungulata.
SUB-ORDER ARTIODACTYLI.
Family BOVIDÆ: Bovines.
Sub-Family Bovinae: Typical Bovines.
Bos americanus (Gmelin), American Buffalo.

Bison

Gray

Date	Cran.	Skel.	Sex.	Local.	Coll.	Donor.
1869	832		♂	Kansas.		Dr. G. M. Stenberg. U.S.A.
1869	959		♂	For D. C. Russell		Dr. C. H. Alden U.S.A.
		686	♂	Wyoming		Dr. A. M. Squire.

Sub-Family Ovinae: Sheep.
Ovis montana, Cuvier. Rocky Mountain Sheep; Bighorn.

12.

Date	Cran.	Skel.	Sex.	Local.	Coll.	Donor.
	671		♂			Dr Campbell
1873	1049		♂		C. Wendell.	Dr. J. J. Woodward U.S.A.
	1422		♂	Three Bulls	Dr E. Coues U.S.A.	Dr. J. J. Woodward U.S.A.
			♂	Montana		Dr. E. Coues U.S.A.
1870		1061	♂	Medicine Bow	Dr J. B. Girard U.S.A.	Dr J. B. Girard U.S.A.
Sum 1879	2259			Wyo. Col.	Stanh. Stew. E. Wagner U.S.A.	

Family ANTILOCAPRIDÆ: American Antelopes.
Antilocapra americana (Ord.). Antelope; Prong-horn
Antelope; Cabree.

	Cran.	Skel.	Sex.	Local.	Coll.	Donor.
	252		♂			Purchased.
	253		♀			"
1868	632		♂	Fort Griffin Texas		Dr. H. M. Eldredg U.S.A.
	633		♂	"		" " " " "
	680					Dr. J. B. Woodman.
1873	1050		♂		C. Wendell	Dr. J. J. Woodman U.S.A.

Family CERVIDÆ: Deer.
Sub-Family Cervinæ: Typical Deer.
Cervus canadensis, Erxl. American Elk; Wapiti.

Date	Cran.	Skel.	Sex.	Local.	Coll.	Donor.
	247		♀			Purchased.
1876	1022		♂	Fort Ransom Dakota	Dr. J. H. T. King U.S.A.	Dr. J. H. T. King. U.S.A.
1870	1077		♂	Med. Bow Miss. Wyoming		Dr. J. G. B. Girard U.S.A.
1875	1525			Fort Buford Dakota	Dr. J. V. D. Middleton	Dr. J. V. D. Middleton U.S.A.
	1537					Genl. G. W. Green U.S.A.
1870		1069	♂	Med. Bow Miss. Wyoming		Dr. J. G. B. Girard U.S.A.

Cariacus macrotis (Say), Gray. Mule, or Black tailed Deer.

Date.	Cran.	Skel.	Sex.	Local.	Coll.	Donor.
	248		♂			Purchased.
1874	1394			New Mexico	Dr. J. C. Yarnum	Dr. J. M. Wheeler U.S.A.
1875		1545		Castilla Peak New Mex.	Dr. W. S. Carpenter U.S.A.	" " " "
		1589				Dr. W. M. Stotom U.S.A.

Cervus macrotis var. *columbianus* Rich.
Columbia Black-tailed Deer

June 1879	2241			Montana	A. Surg. P. R.	Brown U.S.A.
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Cariacus virginianus (Bodd), Gray. Virginia Deer; Red Deer.

Cran.	Skel.	Sex.	Local.	Coll.	Donor.
249		♂			Purchased
250		♂			"
251		♀			"
622		♂			"
625		♂			"
	634	♂			"

Cariacus virginianus macrourus (Raf.), Cs. White-tailed Deer.

Date.	Cran.	Skel.	Sex.	Local.	Coll.	Donor.
1869	833 883		♂	Kansas.		W. J. M. Stenberg. W. S.
Sept.				San Luis Val.		
1873	1395			Colorado	W. J. T. Rothrock	Dr. G. M. Wheeler W. S.
Nov.				Spanish Peaks		
1875		1544		Colorado.	Dr. W. E. Carpenter W. S.	" " " " "

Family DYCOTYLIDÆ: Peccaries.
Dicotyles torquatus, Cuvier. Peccary.

Date	Cran.	Skel.	Sex.	Local.	Coll.	Donor.
	244					Purchased,
Jan 1869		829	♀	Ft. Clark Texas	W. W. Jackson	Mr Donald Jackson

ORDER Cete.
SUB-ORDER DENTICETE.
Family DELPHINIDÆ: Dolphins, etc.
Sub-Family Delphininæ: Typhical Dolphins.
Delphinus delphis, Linn.

Cran.	Skel.	Sex.	Local.	Coll.	Donor.
262					Purchased,
	1308				"

Delphinus chymene Gray.
Porpoise

Cran.	Skel.	Sex.	Local.	Coll.	Donor.
1148					Smithsonian
1266					"
1267					"

Phocaena americana Agassiz.
Snapper or Puffing Pig.

Cran.	Skel.	Sex.	Local.	Coll.	Donor.
1554					Wm H. Dall.

SUPER-ORDER **INEDUCABILIA.**
ORDER **Chiroptera.**
SUB-ORDER **ANIMALIVORA.**
Family NOCTILIONIDÆ: Free-tailed Bats.
Nyctinomus nasutus (Spix.), Tomes. Snouty Bat.

Date	Cran.	Skel.	Sex.	Local.	Coll.	Donor.
1866 Nov. 1879	2381	601		Wash D.C. Ft. Wm. Jan. 30.	Apt. Surg.	W. B. Schapher. C. B. Byrne & Co.

Family VESPERTILIONIDÆ: Ordinary Bats.
Corynorhinus macrotis (Le Conte), Allen. Big-eared Bat.

Cran.	Skel.	Sex.	Local.	Coll.	Donor.
986			Camp Lincoln Arizona	Wm E. Palmer.	Wm E. Palmer

Antrozous pallidus (Le Conte), Allen. *Pale Bat.*

<i>Date</i>	Cran.	Skel.	Sex.	Local.	Coll.	Donor.
	980	848		Arizona	W. E. Palmer	W. E. Palmer.
Sept. 1878	2224			New Mexico	J. W. Stanshaw	W. W. B. Lyon.
July "	2231			Arizona	J. W. Stanshaw	Eph. West of 100 m.
" "	2232			Fort Davis Tex.	J. W. Stanshaw	from Manchester N. H.

Atalapha (Nycticejus) crepuscularis (Le Conte), Cs. *Twilight Bat.*

Cran.	Skel.	Sex.	Local.	Coll.	Donor.
1192	1009		Missouri		Dr. B. Schaphir.
					Dr. W. B. Butt.

Atalapha (Lasiurus) noveboracensis (Exl.), Cs. *Red Bat;*
New York Bat.

Cran.	Skel.	Sex.	Local.	Coll.	Donor.
1353	1198		Wash. D.C.		Dr. E. Cones N. H.
					Dr. B. Schaphir.

Vespertilio subulatus, Say. *Little Brown Bat.*

<i>Date</i>	Cran.	Skel.	Sex.	Local.	Coll.	Donor.
	992			Arizona	W. E. Palmer	W. E. Palmer.
	996			"	" "	" " "
	997			"	" "	" " "
1806	1208	600		Wash. D.C.		Dr. J. B. Hartigan
				Wash D.C.		Dr. B. Schaphir.
	113			" "		A. J. Schaphir.

Vespertilio (Vesperugo) fuscus, Beauv. Carolina Brown Bat.

Cran.	Skel.	Sex.	Local.	Coll.	Donor.
1008	174 854	♂	Wash D.C.	A. Buchly.	A. Buchly. Purchased. Smithsonian Inst.

Vespertilio (Vesperugo) georgianus, F. Cuv. Georgia Bat.

Cran.	Skel.	Sex.	Local.	Coll.	Donor.
1134	849		Wash D.C.	Dr. F. Schaphir.	Dr. F. Schaphir. Dr. Geo. A. Otis.

ORDER Insectivora.
SUB-ORDER INSECTIVORA VERA.
Family TALPIDÆ: Moles.
Sub-Family Talpinae: Typical Moles.
Scalops aquaticus (Linn.), Cuvier. Common Mole.

Wash

Cran.	Skel.	Sex.	Local.	Coll.	Donor.
	112	♂	Wash D.C.	Miss H. D. Holt	Miss Hattie D. Holt

Aug 1878

2155			Scalops aquaticus And. Silvery Shole Camp Survey Station	A.A. Surg. F. H. Allen	U.S.A.
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Condylura cristata (Linn.), Illiger. Star-nosed Mole.

Cran.	Skel.	Sex.	Local.	Coll.	Donor.
	1106	♂	Wash D.C.	Dr. F. Schaphir.	Dr. F. Schaphir.

Family SORICIDÆ: Shrews.
Sorex personatus, Geoff. Masked Shrew.

Cran.	Skel.	Sex.	Local.	Coll.	Donor.
232			Virginia		Dr. F. Schaphir.

17 pages

Sorex cooperi Bach.
Cooper's Shrew.

Date	Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
May 1877	2166			Fort-Sissala Wakota	A.A. Surg. C.E. McChesney	U.S.A.
"	2167					
"	2168					
"	2169					

Sorex pachygnus Baird
Thick-tailed Shrew.

Date	Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
May 1878	2182			Fort-Sissala Wakota	A.A. Surg. C.E. McChesney	U.S.A.
	2183					

Blarina brevicauda Gray
Short-tailed Shrew.

Date	Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
May 1877	2141			Fort-Sissala Wakota	A.A. Surg. C.E. McChesney	
	2142					
	2143					

ORDER Glires.
SUB-ORDER SIMPLICIDENTATA.
Family ZAPODIDÆ: Jumping Mice.
Zapus hudsonius (Zimm.), Cs. Jumping Mouse.

Date	Cran.	Skel.	Sex.	Local.	Coll.	Donor.
July 1873	1326			Pembina	Wm E. Conner	Wm E. Conner.
July 1876	1707	2113		Mts. Dunes St. Sisseton	Wm C. E. Mc Chesney	Wm C. E. Mc Chesney
July 1877	2136			Dawlat	St. W. J. J. J. J.	St. G. M. J. J. J.
Sept 11	2137			Jensmy Valley Fort Sisseton Dak.	Wm C. E. Mc Chesney	Wm C. E. Mc Chesney

Family MURIDÆ: Mice.
Sub-Family Murinae: Typical Mice.
Mus decumanus, Pallas. Common Rat.

Cran.	Skel.	Sex.	Local.	Coll.	Donor.
130					A. M. Squire U.S.A.
222					Purchased.
223					"
552	19	♂	Wash D.C.	Wm F. Schaphiro	Wm F. Schaphiro

Mus tectorum, Savi. White bellied Rat.

Cran.	Skel.	Sex.	Local.	Coll.	Donor.
984			Bonanza Ranch	Wm E. Palmer	Wm E. Palmer.
985			Arizona Little Colorado	" "	" " "

Mus musculus, Linn. Common House Mouse.

Cran.	Skel.	Sex.	Local.	Coll.	Donor.
225					Purchased.
226					"
227					"
	69 1191	♂	Wash. D.C.	Wm F. Schaphiro	Wm F. Schaphiro Smithsonian Institution

Neotoma floridana (Say), Ord. Wood Rat.

	Cran.	Skel.	Sex.	Local.	Coll.	Donor.
	224			Bowers Ranch		Purchased.
	983			Arizona	Dr E. Palmer	Dr E. Palmer.
Apr 1878	2154			Camp Supply Ind. Tex.	Scout - A. Chapman	W.D.A.
6.1				Neotoma mexicana	Baird	Mr. Bush. Rat.
1877		2156		[B. B. Jones]	Apost. Sum.	Dr. C. Merriam
"	2157			" " "	" " "	" " "

Neotoma cinerea (Ord.), Baird. Rocky Mountain Rat.

Date	Cran.	Skel.	Sex.	Local.	Coll.	Donor.
Aug. 1873		1356		White Mts	Dr C. S. Stansbury	Dr. J. M. Wheeler
Sept 1877	2111			Arizona	Dr. W. S. Stansbury	W.D.A.
				Donkey Lake Nev.		Capt. W. J. W. m.

Sigmodon hispidus (Say), Ord. Cotton Rat.

	Cran.	Skel.	Sex.	Local.	Coll.	Donor.
	967			Bowers Ranch	Dr E. Palmer	Dr. E. Palmer.
	968			Arizona		" " "
				Rio Verde	"	" " "
	969			Arizona		" " "
	970			Bowers Ranch		" " "
				Arizona		" " "

Hesperomys (Vesperimus) leucopus (Raf.). White-footed Mouse.

Date	Cran.	Skel.	Sex.	Local.	Coll.	Donor.
	597			Wash. D.C.		E. G. Schaphorst
July 1873	1328			Pendleton	Dr E. Conner	ad. front. ad. com.
				Mts.		Dr. E. Conner. W.D.A.
July 1875	1573			Santa Barbara	H. W. Henshaw	Dr. J. M. Wheeler
1876				California		W.D.A.
	1708			Govt Station	Dr C. E. Mc Chesney	Dr. E. Mc. Chesney
May 1873		1406		Wacotah	H. W. Henshaw	Dr. S. M. Wheeler
				Fr. Garland Cal.		W.D.A.

Hesperomys (Onychomys) leucogaster (Max.) Conner
Missouri Male Mouse.

Date	Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
Sept. 1877		2135		Ft. Sisseton Wash	Dr C. E. Mc Chesney	W.D.A.
1877				" "	"	" " "
1877		2089		" "	"	" " "

Ochetodon longicauda (Baird) Co.
Long-tailed Mouse

Date	Cran.	Skel.	Sex.	Local.	Coll.	Donor.
July 1875	1574			Sanz Barbara California	H. W. Henshaw	Dr. J. M. Wheeler U.S.A.
Feb. 1877		2068		Eutamias amoenus gapperi (Vig) Cores Red backed mouse Fort Sisseton Dak		
Apr 1877		2073		"	"	Dr C. E. Mc Chesney U.S.A.
March " 73		2069 2070 2071 2072		"	"	"

Sub-Family Arvicolinae: Field Mice.
Arvicola (Myonomes) riparius, Ord. Field Mouse.

Date	Cran.	Skel.	Sex.	Local.	Coll.	Donor.
1866	608			Wash. W.C.		Dr. F. Schaphiro.
1870	1040			"		"
Aug 1873	1404			Taylor River Colorado	Dr. J. J. Rothrock	Dr. J. M. Wheeler U.S.A.
1876	1710			Fort Sisseton Dakota	Dr E. Mc Chesney	Dr E. Mc Chesney
Jan 1878		1709 2087		Camp Sisseton Dak		Dr J. E. Wilson "U.S.A."
" "	2086			" " "		"

Fiber zibethicus (Linn.), Cuvier. Musk Rat.

Date	Cran.	Skel.	Sex.	Local.	Coll.	Donor.
	228					Purchased
	229					"
	230					"
	1194					Dr. J. W. Bremer U.S.A.
1873	1317			Milk River Mont.	Dr E. Cones	U.S. Border Bound Comm. Dr E. Cones. U.S.A.
Jan 1877	1421	2086		Fort Sisseton Dak		Dr C. E. Mc Chesney "U.S.A."
Oct. 1877		2150	♂	Arvicola (Arvicola) austriaca, Linn. Prairie meadow mouse Fort Sisseton Dak		
Mar 1878	2133			" " "	"	"
" 1877	2134			" " "	"	"
Oct " "	2151		♂	" " "	"	"
" " "	2152		♀	" " "	"	"

Cores after a. riparius
Arvicola (Myonomes) townsendi Bach.
Townsend's meadow mouse

Date	Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
July 1878	2223			Oregon	H. W. Henshaw	Dr. W. J. W. M.

Family SACCOMYIDÆ: Pouched Mice.
Sub-Family Dipodomyinæ
Dipodomys phillipsi ordi (Woodh.), Cs. Kangaroo Rat.

Date	Cran.	Skel.	Sex.	Local.	Coll.	Donor.
1875	681	♂		Southern California	H. W. Henshaw	Mr. J. B. Woods U.S.A.
	1137	♂				Mr. J. A. Tanner.
	1569					Dr. J. M. White U.S.A.

Cricetodipus flavus, Baird. Western Mouse.

Cran.	Skel.	Sex.	Local.	Coll.	Donor.
990		♂	Rio Verde Arizona	Dr E. Palmer	Mr. E. Palmer.

? Perognathus hispidus Baird.

Date	Cran.	Skel.	Sex.	Local.	Coll.	Donor.
1876	1705			Fort Sisseton Dakota	Dr C. E. McChesney	Dr C. E. McChesney.
"	1706					" " " "

Family GEOMYIDÆ: Gophers.
Geomys bursarius, Shaw. Pouched Gopher.

Date	Cran.	Skel.	Sex.	Local.	Coll.	Donor.
1868	719			St. Richardson Texas		Mr B. B. Miles,
1872	827			Arizada. Fort Sisseton Dakota	Mr. H. C. Yarnall	Mr. J. A. Utin. U.S.A.
	1237				Mr. H. C. Yarnall	Mr. H. C. Yarnall
1876		1703			Mr. C. E. McChesney	Mr E. McChesney
		1895		Minnesota	Mr. F. H. Atkins U.S.A.	
1877		2062		St. Sisseton Dak.	Mr C. E.	Mr Chesney U.S.A.
"		2063		" " "	"	" " "
"	2064			" " "	"	" " "
"	2065			" " "	"	" " "

Thomomys talpoides (Rich.), Baird. Fort Union Gopher.

Date	Cran.	Skel.	Sex.	Local.	Coll.	Donor.
1876		1310		Fort Sissala Nevada	Dr C. E. Mc Chesney	Mr. C. Cones N.S.A.
		1704				Dr C. Mc Chesney

Thomomys talpoides umbrinus (Rich.), Cs. Black-faced Gopher.

Date	Cran.	Skel.	Sex.	Local.	Coll.	Donor.
July 1875 " "	1001			Rio Verde Arizona	Mr E. Palmer	Mr E. Palmer
	1002			"	" "	" " "
	1551			Santa Barbara California	H. W. Henshaw	Dr. J. M. Wheeler N.S.A.
		1572		"	" " "	" " " " "

Family CASTORIDÆ: Beavers.
Castor canadensis, Kuhl. American Beaver.

Date	Cran.	Skel.	Sex.	Local.	Coll.	Donor.
1868 1869	220					Purchased.
	221					"
	794			Fort Stevenson Nebraska		Mr C. C. Gray N.S.A.
	822			Fort Laval Kansas	Mr. W. H. King N.S.A.	Dr. W. H. King N.S.A. unknown
		1081	♂			
		1082		Minnesota	Mr G. H. Atkins - N.S.A.	
		1901				

* Family SCIURIDÆ: Squirrels, etc.
Sub-Family Sciurinae: Typical Squirrels.
Sciurus aberti, Woodh. Tuft-eared Squirrel.

Date	Cran.	Skel.	Sex.	Local.	Coll.	Donor.
Oct 1873	995	1357		See Williams Mt. Arizona Camp Bowie Arizona	Mr E. Palmer Dr. G. Henshaw	Mr E. Palmer. Dr. J. M. Wheeler N.S.A.

* Recommendation according to Mr J. A. Allen Proc Bost. Soc. Nat. Hist.
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Sciurus hudsonius, Pallas. Red Squirrel.

Date	Cran.	Skel.	Sex.	Local.	Coll.	Donor.
	216					Purchased
June 1873		1355		Fr. Garland. Colorado	J. W. Henshaw	Dr. J. M. Whaley U.S.A.
1877		2059		Fort Collins, W. Dak.	W. C. E. Mc	Chesney U.S.A.
				Sciurus hudsonius var. fremontii (Pallas) Allen Fremont's Squirrel		
Oct 12 th 1879		2278		Fort Collins, W. Dak.	A. A. S. S. David	Smiley U.S.A.
				Sciurus hudsonius var. fremontii (Pallas) Allen Fremont's Squirrel		
				Sciurus douglasii (Bach.) Allen Oregon Red Squirrel.		

Date	Cran.	Skel.	Sex.	Local.	Coll.	Donor.
Sept. 1875	1550			Waters Basin California	J. W. Henshaw	Dr. J. M. Whaley U.S.A.

Sciurus ~~ulpinus~~, Gmelin. Southern Fox Squirrel.
~~cinereus~~ var. niger (Linn.) Allen

Cran.	Skel.	Sex.	Local.	Coll.	Donor.
623					A. H. Fernis U.S.A.
624					" " " " "

Sciurus cinereus, Linn. Fox or Cat Squirrel of Middle States.

Cran.	Skel.	Sex.	Local.	Coll.	Donor.
214					Purchased
215					"

23. Sciurus niger var. hudsonianus (Cuv.) Allen
Western Fox Squirrel
1879 | 2208 | Comp. Supply Dept. Tenn | W. J. W. Hall U.S.A.

Sciurus carolinensis, Gmelin. Gray Squirrel.

Cran.	Skel.	Sex.	Local.	Coll.	Donor.
	10	♀			Purchased.

Sciuropterus ~~Pteromys volucella~~ var. volucella (Desm.) allen
Flying Squirrel.

Cran.	Skel.	Sex.	Local.	Coll.	Donor.
896 175		♂			W. H. C. Whitehead Purchased. ^{usa}

Sciuropterus ~~Pteromys volucella~~ var. hudsonius allen.
oregonensis (Bach). Oregon Flying Squirrel.

Cran.	Skel.	Sex.	Local.	Coll.	Donor.
896					W. H. C. Whitehead ^{usa}

Tamias striatus (Linn.). Chipmunk.

Date	Cran.	Skel.	Sex.	Local.	Coll.	Donor.
	596					Purchased
1877		561	♂	Pt. Sisseton Dak	W. H. C. Whitehead	Chasing ^{usa}
Apr 1877	2139	2061	♀	" " "	" " "	" "

Tamias quadrivittatus (Say), Rich. Four-striped Squirrel.

Date	Cran.	Skel.	Sex.	Local.	Coll.	Donor.
June 1873	1361			St. Garland, Colorado	H. W. Henshaw	Dr. J. M. White ^{usa}
"		1362		"	" " "	" " " ^{usa}
"	1667				W. E. Conesha	W. E. Conesha ^{usa}
"	1687					" " " " " "

Tamias harrisi (Aud. & Bach) allen
Harris' Chipmunk.

Date	Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
	2234			Marjane Nev. Arizona	H. W. Henshaw	Dr. W. J. M. M.

Tamias lateralis (Say), Allen. Rocky Mountain Chipmunk.

Date	Cran.	Skel.	Sex.	Local.	Coll.	Donor.
Sept. 1875	1549	.		Mr. Whipple California	H. W. Henshaw	Dr. J. M. Wheeler U.S.A.
Aug. 1873		1363		Iron Lakes Colorado	W. J. J. Rothrock	Dr. J. M. Wheeler U.S.A.

Spermophilus grammurus (Say), Bach. Line-tail Squirrel.

Date	Cran.	Skel.	Sex.	Local.	Coll.	Donor.
Sept. 1873	974			Fort Whipple Arizona	W. E. Palmer	W. E. Palmer
	1398			camp Apache Arizona	H. W. Henshaw	Dr. J. M. Wheeler U.S.A.

Spermophilus tridecem-lineatus (Mitch.), Aud. and Bach.
Striped Prairie Squirrel.

	Cran.	Skel.	Sex.	Local.	Coll.	Donor.
	1312					W. E. Cones U.S.A.
	1313					" " " " "
		1311				W. E. Cones U.S.A.
1878	1686	1155 2060		St. Simons W. Ark.	W. E. Cones	U.S. Geol. & Geog. Surv. W. E. Cones
					W. C. E. Mc Chesney	U.S.A.

Spermophilus richardsoni (Sabine), Ed. Richardson's Gopher.

Date	Cran.	Skel.	Sex.	Local.	Coll.	Donor.
1873	1433			Miss River Mont.	W. E. Cones U.S.A.	U.S. Mount. Board Com W. E. Cones, U.S.A.

Spermophilus richardsoni var townsendi (Sab.) Rocks allen
Townsend's Spermophile

Date	Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
1877	2126			Eagle Lake Cal.	H. W. Henshaw	Exp. W. J. W. M.

Spermophilus franklini (Sabine) Sisson
Franklin's Spermophile: Gray headed Spermophile

Aug. 1877		2146		St. Simons W. Ark.	W. C. E. Mc Chesney	
Sept. "	2145			" " "	" " "	"
Aug. "	2147			" " "	" " "	"
" "	2148			" " "	" " "	"
May "	2149			" " "	" " "	"

Spermophilus mexicanus (Licht.) Wagner.
Mexican Spermophile.

Sept. 1877		2159		St. Simons W. Ark.	W. C. E. Mc Chesney	U.S.A.
" "	2160			" " "	" " "	"
" "	2161			" " "	" " "	"
Aug. "	2162			" " "	" " "	"
" "	2163			" " "	" " "	"

grammus var.

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Spermophilus beecheyi (Rich) Allen
California Ground Squirrel

	Cran.	Skel.	Sex.	Local.	Coll.	Donor.
July 1875	1548 1548			Santa Barbara California	H. W. Henshaw	Dr. G. M. Wheeler U.S.A.
"	1547			"	" " "	" " " " " "
"		1570		"	" " "	" " " " " "

Cynomys ludovicianus (Ord.), Bd. Prairie Dog.

Date	Cran.	Skel.	Sex.	Local.	Coll.	Donor.
	217					Purchased
	218					"
	835			Kansas.		Dr. G. M. Stanley U.S.A.
Nov 1869	903		♂	Fort W. A. Russell Wyoming	Dr C. H. Alden U.S.A.	Dr C. H. Alden " "
"	904		♀	"	"	" " " " " "
"		905	♀	"	"	" " " " " "
1874		1409	♂	Camp Supply Ind. Territory	Dr J. J. A. Cleary U.S.A.	Dr. P. J. A. Cleary U.S.A.
		1410	♀	"	"	" " " " " "

Cynomys columbianus (Ord.), Allen. Short-tailed Prairie Dog.

Date	Cran.	Skel.	Sex.	Local.	Coll.	Donor.
Aug 1872		1352		Utah.	Dr. H. C. Yarrow	Dr. G. M. Wheeler U.S.A.
Sept-1877	2158			Camp Supply Ind. Terr.	Dr. H. C. Yarrow	S. Kit ching U.S.A.

Sub-Family *Arctomyiinae*: Woodchucks.
1. *Arctomys monax*, Linn. Woodchuck.

Date	Cran.	Skel.	Sex.	Local.	Coll.	Donor.
	219	1205				Purchased A. K. Davis U.S.A.
1878	2056					W. E. McCallan U.S.A.

Arctomys flaviventer, Aud. and Bach. Yellow-bellied Marmot.

Date	Cran.	Skel.	Sex.	Local.	Coll.	Donor.
June 1878	1358			Georgetown Colorado.	W. J. F. R. R. R. R.	Dr. J. M. Wheeler U.S.A.

Family *HYSTRICIDAE*: Porcupines.
Erethizon dorsatus, Cuvier. Porcupine.

Cran.	Skel.	Sex.	Local.	Coll.	Donor.
978			Bill Williams near Arizona	W. E. Palmer	W. E. Palmer

Erethizon epixanthus, Brandt. Yellow-haired Porcupine.

Date	Cran.	Skel.	Sex.	Local.	Coll.	Donor.
	231					Purchased. as given by Dr. E. C. Conner U.S.A.
Oct 3rd 1877	1680	2320		Frederick Wyoming	Dr. E. Conner W. R. W. Shufeldt U.S.A.	Dr. E. Conner U.S.A.

SUB-ORDER DUPLICIDENTATA.
Family LEPORIDÆ: Hares.
Lepus americanus, Erxl. Great Northern Hare.

Cran.	Skel.	Sex.	Local.	Coll.	Donor.
239					Purchased.

Lepus callotis, Wagler. Jackass Rabbit.

Date	Cran.	Skel.	Sex.	Local.	Coll.	Donor.
	237					Purchased.
1868 Sept	797			Fort Stevenson Wadswa		Dr C. E. Gray. U.S. a
1872 Sept	1238			Utah	Dr H. C. Gann	Dr. G. M. Wheeler U.S. a
1873 Sept	1360			San Pedro Arizona	H. W. Henshaw	" " " " " "
1872	1405			Beaver Utah	Dr H. C. Gann	" " " " " "
		1456			H. W. Henshaw	J. Kitching U.S. a.
1878		1896		Minnesota	Dr. F. H. Allen	U.S. a.

Lepus campestris Bach.
Grouse Prairie State.

Date	Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
Apr 1880	2390			Fort Shaw Montana	A. S. J. C. Merrill	U.S. a.

Lepus sylvaticus, Bach. Eastern Gray Rabbit.

Date	Cran.	Skel.	Sex.	Local.	Coll.	Donor.
	240					Purchased
	241					"
	242					"
	243					"
		164	♂			"
June 1875	2235			Lepus sylvaticus andotoni (Baird) Allen and other rabbits. Sta. Barbara Cal.	H. W. Henshaw	Dep. W. of W. M.

Lepus sylvaticus nuttali (Bach), Allen. Sage Rabbit.

Date	Cran.	Skel.	Sex.	Local.	Coll.	Donor.
	972			Little Colorado	Dr E. Palmer	Dr. E. Palmer
	987			Arizona	"	" " "
	988			"	"	" " "
	989			"	"	" " "
Sept 1872	1239			Utah	Dr. H. C. Gann	Dr. G. M. Wheeler U.S. a.
1872	1240			"	G. C. Gilbert	" " " " " "
June 1873	1384			St. Garland Colorado.	H. W. Henshaw	U.S. a.
	1669				Dr E. Palmer	U.S. a.
	1670					" " " " " "

Lepus townsendi Baird
Townsendi State

Date	Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
Sept 1877	2094			Gorse Lake Cal.	H. W. Henshaw	U.S. a.

Lepus palustris, Bach. Marsh Rabbit.

Cran.	Skel.	Sex.	Local.	Coll.	Donor.
238					Purchased.

Order Buta.
Sub-order Loricata
Family Wasyrodidae
Sub. Fam. Tatusiinae
Tatusia septem-cinctus &
Rio Grande Armadillo.

Date	Cran.	Skel.	Sex.	Locality.	Collector.	Donor.
Feb 1898		2075		Rt. Brown Texas	W. D. C. Murphy	
	2127			" " "	" "	" "

SUB-CLASS Didelphia.
ORDER Marsupialia.
SUB-ORDER DIDELPHIMORPHIA.
Family DIDELPHIDÆ: Opossums.
Didelphys virginianus, Shaw. Common Opossum.

Cran.	Skel.	Sex.	Local.	Coll.	Donor.
212					Purchased
213					"
787					W. D. Elliott.
945					Purchased
	1	♂			"
	162	♀			"
	163	Imm.			"

Didelphys californica Bennett.
Black Opossum

Feb. 1898	2074		Rt. Brown Texas	W. D. C. Murphy U.S.A.
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LIST OF CRANIA AND SKELETONS OF FOREIGN
AND DOMESTIC MAMMALS.

ated

CLASS **MAMMALIA.**
SUB-CLASS **Placentalia.**
SUPER-ORDER **EDUCABILIA.**
ORDER **Primates.**
SUB-ORDER **ANTHROPOIDEA.**
Family **SIMIIDÆ.**
Sub-Family *Simiinae.*
Simia satyrus, Linn. *Orang Outang.*

Cran.	Skel.	Sex.	Local.	Coll.	Donor.
	1407				Purchased.

Family **CYNOPITHECIDÆ.**
Sub-Family *Cynopithicinae.*
Cercopithecus fuliginosus, Cuvier. *Moor Ape Monkey.*

Cran.	Skel.	Sex.	Local.	Coll.	Donor.
	1066				Purchased.

Cercopithecus pygerythus, Cuvier. *Vervet.*

Cran.	Skel.	Sex.	Local.	Coll.	Donor.
	1299		Guiana		Purchased

Macacus senicus (Desm), Gray. *Capped Macaque.*

Cran.	Skel.	Sex.	Local.	Coll.	Donor.
	1300		India		Purchased.

Macacus cynomolgus, Desm. The Kra.

Cran.	Skel.	Sex.	Local.	Coll.	Donor.
1382			Africa	Zool. Soc. of London.	Wm. H. C. Yarrou

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Cynocephalus porcarius, Desm. Chacma.

Cran.	Skel.	Sex.	Local.	Coll.	Donor.
	1297		Abyssinia		Purchased.

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Family CEBIDÆ.
Sub-Family Mycetinae.
Mycetes seniculus, Kuhl. Golden Howler.

Cran.	Skel.	Sex.	Local.	Coll.	Donor.
	1298		Guiana		Purchased.

Sub-Family Cebinae.
Ateles paniscus, Geoff. Spider Monkey.

Date	Cran.	Skel.	Sex.	Local.	Coll.	Donor.
		1296		Brazil.		Purchased.
Jan 1878		2203		Phila. Pa	Herman Fabe Esq.	

Family MIDIDÆ.
Oedipus titi, Lesson. Pinche.

Cran.	Skel.	Sex.	Local.	Coll.	Donor.
	1302		Guiana		Purchased.

31.

Oct 25 1880		2418		Sagochius humboldtii? Humboldt's monkey	Mr Randee	Griffroy de Helaine Driver & Schofield.
				Brazil.		

SUB-ORDER PROSIMIÆ.
Family TARSIIDÆ.
Tarsius spectrum, Geoff. *Tarsius*.

Cran.	Skel.	Sex.	Local.	Coll.	Donor.
	1301		Madagascar		Purchased.

6

ORDER Ferae.
SUB-ORDER FISSIPEDIA.
Family FELIDÆ: *Cats, etc.*
Sub-Family *Feline*: Typical Cats.
Felis domesticus, Linn. *Common Cat.*

Cran.	Skel.	Sex.	Local.	Coll.	Donor.
95		♂			Hosp. Sten. A.M. Squire
181		♂			Purchased
182		♀			"
183		♀			"
	20	♀	Wash. D.C.		Dr G. Schaphius
683			New Mexico		Gov. R. B. Mitchell
580			Dacota		Col. H. H. Knox

Felis tigris, Cuv. *Bengal Tiger.*

Cran.	Skel.	Sex.	Local.	Coll.	Donor.
	1307		Bengal		Purchased.

Family CANIDÆ: *Dogs, Wolves, etc.*
 Sub-Family *Caninæ*: Typical Dogs.
Canis familiaris, Linn. *Common Dog.*

<i>Wali</i>	Cran.	Skel.	Sex.	Local.	Coll.	Donor.
	29		♂			Wm. S. S. Billings U.S.A.
1865	35		♂	Wash. W.C.		G. R. Gove.
	187		♀			Purchased
	188		♀			
	739					Wm. E. Meigs.
		76	♀	Wash. W.C.		Wm. B. Schaphius.

Family MUSTELIDÆ: *Martins, Weasels, etc.*
 Sub-Family *Mustelinæ*: Typical Weasles.
Mustela martes, Brisson. *Forest Mink.*

Cran.	Skel.	Sex.	Local.	Coll.	Donor.
723					Wm. E. Meigs.

Putorius foetidus, Linn. *European Itis.*

Cran.	Skel.	Sex.	Local.	Coll.	Donor.
724					Wm. E. Meigs.

Putorius vulgaris (Briss.). *Field Weasel.*

Cran.	Skel.	Sex.	Local.	Coll.	Donor.
730					Wm. E. Meigs.

Putorius erminea (Linn.). Great Weasel.

Cran.	Skel.	Sex.	Local.	Coll.	Donor.
732					Wm. E. Meigs.

Sub-Family Melinae: Badgers.
Meles taxus, Schreber. European Badger.

Cran.	Skel.	Sex.	Local.	Coll.	Donor.
736					Wm. E. Meigs.

Sub-Family Lutrinae: Otters.
Lutra vulgaris, Linn. European Otter.

Cran.	Skel.	Sex.	Local.	Coll.	Donor.
740					Wm. E. Meigs.

6

ORDER Ungulata.
SUB-ORDER ARTIODACTYLI.
Family BOVIDE: Bovines.
Sub-Family Bovinae: Typical Bovines.
Bos taurus (Linn.), Cuvier. Cow.

Date	Cran.	Skel.	Sex.	Local.	Coll.	Donor.
	50		♀	Wash. D.C.		Hosp. Steen. A. M. Squire
Apr. 1879	2221 ^(house)	802			A. A. Snyg. R. N.	Vet. Surg. Brailley White M.D. a.

Sub-Family Antilopinae: European Antelope; Chamois, etc.
Rupicapra tragus, Linn. Chamois.

Cran.	Skel.	Sex.	Local.	Coll.	Donor.
738		♂	also		Wm. E. Meigs.
	871	♂	"		" " "

Sub-Family *Caprinae*: Goats, etc.
Capra hircus. Common Goat.

Cran.	Skel.	Sex.	Local.	Coll.	Donor.
254		♂			Purchased
255		♂			"
256		♂			"
	106	♂			"

Sub-Family *Ovinæ*: Sheep.
Ovis aries, Linn. Common Sheep.

Cran.	Skel.	Sex.	Local.	Coll.	Donor.
257		♂			Purchased
619		♀	Wash. D.C.		A. K. Ferris, U.S.A.
620		♀	" "		" " " "

Family PHACOCHÆRIDÆ.
Phacochoerus aeliani, Gretz. Wart Hog.

Cran.	Skel.	Sex.	Local.	Coll.	Donor.
1309			Abyssinia		Purchased.

Family SUIDÆ: Swine.
Sus scrofa, Linn. Common Hog.

Date	Cran.	Skel.	Sex.	Local.	Coll.	Donor.
	47					A. M. Squier U.S.A.
	52			Wash. D.C.		W. B. Schaphius
	245		♂			Purchased
	246		♀			"
1864		123	♂ juv.	Wash. D.C.		J. M. Seyoum
	853					Purchased
	856					"

SUB-ORDER PERISSODACTYLI.
Family EQUIDÆ: *Horses, etc.*
Equus caballus, Linn. *Horse.*

Cran.	Skel.	Sex.	Local.	Coll.	Donor.
34	801	♀	Wash. D.C.		Dr. B. Schaphorst. Vet. Surg. Brailey

Equus asinus caballus, Linn. *Mule.*

Date	Cran.	Skel.	Sex.	Local.	Coll.	Donor.
1874	1408		♂	San Antonio Texas	Dr. J. P. Hammond ^{W.D.A.}	Dr. J. P. Hammond ^{W.D.A.}

SUPER-ORDER INEDUCABILIA.
ORDER Chiroptera.
SUB-ORDER ANIMALIVORA.
Family VESPERTILIONIDÆ.
Sub-Family *Vespertilionine*.
Vesperugo noctula, Blas. *Shining Bat.*

Cran.	Skel.	Sex.	Local.	Coll.	Donor.
731					Dr. E. Mep.

Vesperugo pipistrellus, Blas. *Common European Bat.*

Cran.	Skel.	Sex.	Local.	Coll.	Donor.
728					Dr. E. Mep.

Vesperugo discolor, Blas. *Parti-colored Bat.*

Cran.	Skel.	Sex.	Local.	Coll.	Donor.
729					Dr. E. Mep.

Plecotus auritus (Linn.), Geoff. Long-eared Bat.

Cran.	Skel.	Sex.	Local.	Coll.	Donor.
727					Wm. E. Mifs.

ORDER **Insectivora.**
 SUB-ORDER **INSECTIVORA VERA.**
 Family TALPIDÆ: Moles.
 Sub-Family *Talpinae*: Typical Moles.
Talpa europæa, Linn. Black Mole.

Cran.	Skel.	Sex.	Local.	Coll.	Donor.
734 735					Wm. E. Mifs. " " "

Family SORICIDÆ: Shrews.
Crocidura araneus (Schreber.). Common Shrew.

Cran.	Skel.	Sex.	Local.	Coll.	Donor.
733					Wm E. Mifs.

Family ERINACEIDÆ: Hedgehogs.
 Sub-Family *Erinaceinae*: Typical Hedgehogs.
Erinaceus europæus, Linn. Hedgehog.

Cran.	Skel.	Sex.	Local.	Coll.	Donor.
725					Wm E. Mifs.

ORDER **Glires.**
 SUB-ORDER **SIMPLICIDENTATI.**
 Family **MURIDÆ**: *Rats, Mice, etc.*
 Sub-Family *Murinae*: Typical Mice.
Arvicola amphibius, Linn. *Water-Rat.*

Cran.	Skel.	Sex.	Local.	Coll.	Donor.
726 2244			arizom		Dr. E. Mep. Capt C. H Campbell USA

Family **CAVIIDÆ**: *Cavies, etc.*
Cavia cabaya, Linn. *Guinea Pig.*

Date	Cran.	Skel.	Sex.	Local.	Coll.	Donor.
	869		♀			Purchased
	870		♀			"
	908		♂			"
	909		♂			"
	872 1918		♀ ♂	Wash. D.C.	E. J. Parker.	Esq

SUB-ORDER **DUPLICIDENTATI.**
 Family **LEPORIDÆ**: *Rabbits, Hares, etc.*
Lepus timidus, Linn. *European Hare.*

Cran.	Skel.	Sex.	Local.	Coll.	Donor.
737					Dr. E. Mep.

Lepus cuniculus, Linn. *English Rabbit.*

Cran.	Skel.	Sex.	Local.	Coll.	Donor.
234					Purchased
235					"
236					"
1023	48	♂	Wash. D.C. Wash. D.C.		W. G. Schaphiro E. Schaphiro.

Lepus madagascarensis, Linn. Lop-eared Rabbit.

Cran.	Skel.	Sex.	Local.	Coll.	Donor.
818	818	♀			Purchased.

26

ORDER **Bruta.**
SUB-ORDER **TARDIGRADA.**
Family BRADYPODIDÆ.
Sub-Family *Cholæpodinæ.*
Cholæpus hoffmanii, Gray. Two-toed Sloth.

Cran.	Skel.	Sex.	Local.	Coll.	Donor.
	1303		Central Amer.		Purchased.

SUB-CLASS **Didelphia.**
ORDER **Marsupialia.**
SUB-ORDER **SYNDACTYLI.**
Family PHALANGISTIDÆ.
Sub-Family *Phalangistinæ.*
Phalangista vulpina, Desm. Australian Opossum.

Cran.	Skel.	Sex.	Local.	Coll.	Donor.
	1306		Australia		Purchased.

17
16
15
9

Tachyglossus

SUB-CLASS **Ornithodelphia.**
ORDER **Monotremata.**
SUB-ORDER **TACHYGLOSSA.**
Family TACHYGLOSSIDÆ.
Echidna aculeata, Gray. Porcupine Ant-eater.

Cran.	Skel.	Sex.	Local.	Coll.	Donor.
	1305		Australia		Purchased.

SUB-ORDER **PLATYPODA.**
 Family ORNITHORHYNCHIDÆ.
Ornithorhynchus anatinus, Shaw. *Duck-bill Platypus.*

Cran.	Skel.	Sex.	Local.	Coll.	Donor.
	1304		Australia		Purchased.

Monstrosities of Foreign and Domestic Mammals.

Crania	Skeletons.	
	✓ 549	A Pig (<i>sus scrofa</i>) with two faces.
	✓ 580	A Young Bat (<i>felis domesticus</i>) with two faces. Presented by Col. K. Knox.
680	✓	A Young hemicephalous Antelope (<i>Antilocapra Americana</i> , Dakota) with two perfect faces. Presented by Assistant Surgeon C. E. Goddard U.S.A.
	✓ 683	A Young Bat (<i>felis domesticus</i>) with two faces. Presented by Governor A. J. Mitchel.
	✓ 791	Incomplete double-headed pig (<i>Sus scrofa</i>).
	✓ 853	A Pig (<i>sus scrofa</i>) with seven legs and eight feet; there are two perfect front legs, four hind legs, and a seventh leg stands upward between the two thoraces; the head is bifurcated at the os frontis, as if the animal had two mouths. Received in exchange from the Smithsonian Institution.
	✓ 856	A Pig (<i>sus scrofa</i>) with two heads, the left being only partially developed. Received in exchange from the Smithsonian Institution.
	✓ 872	A Guinea Pig (<i>cavia cabaya</i>) with rudimentary clavicles. Purchased.

Crania Skeletons

- ~~1146~~ A young cat (*Felis domesticus*) with two bodies, eight legs and one head. Received in exchange from the Smithsonian Institution.
- ✓ 1178 A Pig (*Sus scrofa*) with two bodies eight legs and one head. Received in exchange from the Smithsonian Institution.
- ✓ 1253 A Pig (*Sus scrofa*) with eight legs, four sets of ribs, two sterns. The two thoraces form but one cavity. One cranium but no inferior maxilla. Received in exchange from the Smithsonian Institution.
- ✓ 1255 A Pig (*Sus scrofa*) with malformed cranium, having a proboscis two inches long formed by nasal bones, beneath which is a double orbit one inch in length, and below this a flat and rudimentary superior maxilla. The inferior maxilla has a curvature upwards in the anterior third. Received in exchange from the Smithsonian Institution.
- ✓ 1256 A Pig (*Sus scrofa*) with malformed head, the cranium having a very small cavity for cerebellum; no facial bones; the inferior maxilla not developed. Received in exchange from the Smithsonian Institution.
- 1257 ✓ Foetal cranium of Antelope (*Antilocapra americana*). The superior maxilla is so greatly depressed anteriorly that the alveolar borders meet underneath, and have formed thereby a deep fossa instead of a palatine plate; no tongue; the inferior maxilla is extremely rudimentary and small.
- ✓ 1258 A young Dog (*Canis familiaris*) with five legs. The right os innominatum has two acetabuli and two legs; the additional leg has two feet. Received in exchange from the Smithsonian Institution.
- ✓ 1259 A young cat (*Felis domesticus*) with cranium slightly larger than a pistol ball, without face, and with a very minute rudimentary inferior maxilla. Received in exchange from the Smithsonian Institution.

Crania Skeletons

- ✓ 1260 A young bat (*felis domesticus*) with misshapen cranium, the nasal bones forming a proboscis one inch long; a single orbit beneath the nose; the superior maxilla rudimentary; the inferior curving upwards in anterior third. Received in exchange from the Smithsonian Institution.
- ✓ 1261 A young bat (*felis domesticus*) with double face. In front and between the faces is a single orbit sufficiently large for two eyes; two mouths forming one cavity; inferior maxilla on anterior aspect is about one inch square. Received in exchange from the Smithsonian Institution.
- ✓ 1275 A Pig (*sus scrofa*) with round cranium; the proboscis is long and curved upward and backward and resting on top of the head; no orbits; no zygomatic arches, the inferior maxilla being a bridge from side to side. Presented by Acting Assistant Surgeon W. P. Lyon U.S.A.
- 1320 ✓ Malformed cranium of a Pig (*sus scrofa*). Presented by Assistant Surgeon W. E. Whitehead, U.S.A.
- ✓ 1321 A young bat (*felis domesticus*) with double face. Presented by Hospital Steward Kennedy U.S.A.
- ✓ 1368 A young bat (*felis domesticus*) with two bodies. Presented by Theodore F. M. Kean.
- ✓ 1712 A young cow (*bos taurus*) with six legs. The spinous processes of the second, third and fourth dorsal vertebrae are firmly united and form a scapula, at the upper part of which, united by a strong intraspinous ligament, is an additional pelvis of which the lower innominatum is normal, and the other only rudimentary, terminating in two irregular spinous processes. This pelvis has two additional legs, one hind leg thirty-two inches long with two feet hanging on the right, and one fore leg, twenty-one inches long hanging on the left side of thorax. The articulations of the additional legs are ankylosed. Collected by Dr. F. Schaffert. Presented by Mr. J. L. Heathcote.

No
Crania Skeletons

- ✓ 2067 A Young Dog (*canis familiaris*) with three ossa innominata and five legs. Presented by Dr J. C. Toner.
- ✓ 2153 A Young Dog (*canis familiaris*) without superior or inferior maxilla, the nasal bones forming a long proboscis. Presented by Mr. Ferguson.
- ✓ 2170 A Young Cat (*felis domesticus*) with two perfect bodies, one cranium, four ears, and three eyes; one eye between occipital bones. Presented by Assistant Surgeon A. B. Girard U.S.A.
- ✓ 2184 A Young Cat (*felis domesticus*) with two perfect bodies and normal cranium. Presented by S. Shepherd Esq.
- 2385 ✓ Malformed cranium of a Pig (*Sus scrofa*). Presented by Dr H. J. Warmuth.
- 2393 Crania of a double-headed calf (*bos taurus*). Presented by Assistant Surgeon J. C. Merrill U.S.A.
- 2448 Double head of calf. (*bos taurus*) Presented by Assistant Surgeon George H. Torrey, U.S.A.
- ~~2457~~ ^{still} ~~missing~~ ✓ Two mouthed Kitten (*felis domesticus*). Presented by Lieut. Mulhall.
- ~~2464~~ ^{missing} ✓ Two headed foetal calf. (*bos taurus*) Presented by Assistant Surgeon R. C. Newton U.S.A.
- ✓ 2466 Acephalus puppy (*canis familiaris*). Presented by Assistant Surgeon M. E. Taylor

Miscellaneous Specimens
of and from
Mammals.

No.

- | | | |
|-----|---|---|
| 22 | ✓ | Oviduct with three embryos of a cat (<i>felis domesticus</i>). Presented by Dr F. Schaphirt. |
| 30 | ✱ | Os penis of a dog (<i>canis familiaris</i>). Presented by Surgeon J. S. Pillings rfa. |
| 72 | o | Uterus and appendages of a dog (<i>canis familiaris</i>). Presented by Dr F. Schaphirt. |
| 100 | + | Os penis of a red fox (<i>vulpes vulgaris pennsylvanicus</i>). Presented by Dr F. Schaphirt. |
| 121 | o | Encephalon of an Eastern gray rabbit (<i>lepus sylvaticus</i>). Purchased. |
| 122 | o | Encephalon of a gray squirrel (<i>sciurus carolinensis</i>). Purchased. |
| 128 | o | Encephalon of a sheep (<i>ovis aries</i>). Presented by Dr F. Schaphirt. |
| 159 | + | Costra bifida of American buffalo (<i>bos americanus</i>). Received in exchange from the Smithsonian Institution. |

No.

- 150 + Costa furcata of American buffalo (*bos americanus*). Received in exchange from the Smithsonian Institution.
- 176 + Hand of a grizzly bear (*ursus arctos horribilis*). Purchased.
- 176 + Foot of a grizzly bear (*ursus arctos horribilis*). Purchased.
- 581 ✓ Embryo of sheep (*ovis aries*). Presented by Dr. F. Schaffhirt.
- 625 + Os penis of a raccoon (*procyon lotor*) contributed by Mr. A. K. Ferris.
- 636 ○ Calculus from the stomach of a horse (*equus caballus*) with a nail as nucleus. Received in exchange from the Smithsonian Institution.
- 637 ○ Hairball from the stomach of a horse (*equus caballus*). Received in exchange from the Smithsonian Institution.
- 638 ○ Hairball from the stomach of a cow (*bos taurus*). Received in exchange from the Smithsonian Institution.
- 639 ○ Hairball from the stomach of an ox (*bos taurus*). Received in exchange from the Smithsonian Institution.
- 640 ○ A piece of tanned hide of a rhinoceros () Received in exchange from the Smithsonian Institution.
- 641 ○ Calculus from the stomach of a horse (*equus caballus*) with a pebble for a nucleus. Received in exchange from the Smithsonian Institution.
- 642 ○ Calculus from the stomach of a horse (*equus caballus*). Received in exchange from the Smithsonian Institution.
- 644 ✓ East of the head of a gorilla (*troglodytes gorilla*) Pres^d by Prof. Jeff. Wyman
- 645 ○ Calculus from the stomach of a horse (*equus caballus*). Presented by Dr. H. Pache.
- 646 ○ Calculus from the stomach of a horse (*equus caballus*). Presented by Dr. H. Pache.

No.

- 647 o Calculus from the stomach of a horse (*equus caballus*).
Presented by Dr H. Bache
- 648 o Calculus from the stomach of a horse (*equus caballus*).
Presented by Dr H. Bache
- 649 o Hairball from the stomach of a horse (*equus caballus*).
Presented by Dr H. Bache.
- 650 o Hairball from the stomach of a cow (*bos taurus*). Pre-
sented by Dr Herman Bache.
- 651 o Hairball from the stomach of a cow (*bos taurus*). Pre-
sented by Dr Herman Bache.
- 660 o Calculus found in the stomach of a whale. Received
from the University of Virginia.
- 661 o Calculus from the stomach of a horse (*equus caballus*).
Received from the University of Virginia.
- ~~670~~ + Molar tooth of an ox (*bos taurus*). Collected and presented
by Dr M. Bloomfield.
- 676 + Calvarium of an American elk (*cervus canadensis*). Pre-
sented by Surgeon J. C. McKee, U.S.A.
- ~~678~~ + Fossil molar tooth of a mastodon giganteus. Presented
by Mr. F. M. Guire.
- 685 v Embryo of a red deer (*cervus virginianus*). Presented
by Surgeon L. C. Gray U.S.A.
- 687 + Ossicula auditus of a horse (*equus caballus*). Presented by Ver-
eterinary Surgeon Trailey, U.S.A.
- 688 + Supernumerary bones of carpal articulation of a horse (*equus
caballus*). Presented by Veterinary Surgeon Trailey U.S.A.
- 689 o Arteries, veins, flexor and extensor tendons inserted into the cartilaginous hoof
of a horse (*equus caballus*) after removal of all the bones. Presented by
Veterinary Surgeon Trailey, U.S.A.

No.

- 690 o Cartilaginous hoof of a horse (*equus caballus*). Presented by
Veterinary Surgeon Brailey, Ufa.
- 691 o Two feet of a horse (*equus caballus*) exhibiting the laminated
(sensitive) folds in healthy conditions. Presented by Veterinary
Surgeon Brailey, Ufa.
- 692 + Vertical section of phalanges of a horse (*equus caballus*). Lig-
amentous preparation. Presented by Veterinary Surgeon
Brailey, Ufa.
- 693 o Right carpus of a horse (*equus caballus*) exhibiting tendons,
arteries, veins, and ligaments. Presented by Veterinary Sur-
geon Brailey, Ufa.
- 694 o Foot of a horse (*equus caballus*); skin removed. Presented
by Veterinary Surgeon Brailey, Ufa.
- 695 o Vertical sections of a front and of a hind foot of a horse
(*equus caballus*). Presented by Veterinary Surgeon Brailey
Ufa.
- 696 o Two feet of a horse (*equus caballus*) prepared to exhibit the
laminated (sensitive) folds, coronary border, and glandu-
lar system in healthy condition. Presented by Veterinary
Surgeon Brailey, Ufa.
- 697 o Hairball from the stomach of a steer (*bos taurus*). Presented
by Dr J. P. Miles.
- 698 o Hairball from the stomach of a steer (*bos taurus*). Presented
by Dr J. P. Miles.
- 699 o Hairball from the stomach of a steer (*bos taurus*). Presented
by Dr J. P. Miles.
- 721 ✓ Embryo of an American elk (*ceruus canadensis*). Collected and
presented by Assistant Surgeon J. P. Kimball Ufa.
744. + Anterior parts of maxillae of a horse (*equus caballus*) showing
incisor teeth at five years. Presented by Veterinary Surgeon
Brailey Ufa.

No.

- 745 + Anterior parts of maxillae of a horse (*equus caballus*), showing incisor teeth at six years. Presented by Veterinary Surgeon Trailey, rfa.
- 746 + Anterior parts of maxillae of a horse (*equus caballus*), showing incisor teeth at eight years. Presented by Veterinary Surgeon Trailey rfa.
- 747 + Anterior parts of maxillae of a horse (*equus caballus*) showing incisor teeth at nine years. Presented by Veterinary Surgeon Trailey, rfa.
- 748 + Anterior parts of maxillae of a horse (*equus caballus*) showing incisor teeth at ten years. Presented by Veterinary Surgeon Trailey, rfa.
- 749 + Anterior parts of maxillae of a horse (*equus caballus*) showing incisor teeth at eleven years. Presented by Veterinary Surgeon Trailey rfa.
- 750 + Anterior parts of maxillae of a horse (*equus caballus*) showing incisor teeth at twelve years. Presented by Veterinary Surgeon Trailey, rfa.
- 751 + Anterior parts of maxillae of a horse (*equus caballus*) showing incisor teeth at sixteen years. Presented by Veterinary Surgeon Trailey rfa.
- 752 + Anterior parts of maxillae of a horse (*equus caballus*) showing incisor teeth at eighteen years. Presented by Veterinary Surgeon Trailey rfa.
- 753 + Anterior parts of maxillae of a horse (*equus caballus*) showing incisor teeth at twenty years. Presented by Veterinary Surgeon Trailey, rfa.
- 754 + Left carpal articulation of a horse (*equus caballus*); ligamentous. Presented by Veterinary Surgeon Trailey, rfa.
- 755 + Anterior phalanges of a mule (*equus asinus caballus*) with lateral and true cartilages of heel. Presented by Veterinary Surgeon Trailey, rfa.

No.

- 756 + Anterior phalanges of a horse (*equus caballus*); ligamentous. Presented by Veterinary Surgeon Trailey, Ufa.
- 757 + Anterior phalanges of a horse (*equus caballus*); ligamentous. Presented by Veterinary Surgeon Trailey, Ufa.
- 758 + Anterior phalanges of a horse (*equus caballus*) articulated with rubber. Presented by Veterinary Surgeon Trailey, Ufa.
- 759 + Posterior phalanges of a horse (*equus caballus*) articulated with rubber. Presented by Veterinary Surgeon Trailey, Ufa.
- 760 + Anterior phalanges of a horse (*equus caballus*); ligamentous. Presented by Veterinary Surgeon Trailey, Ufa.
- 761 + Posterior phalanges of a horse (*equus caballus*); ligamentous. Presented by Veterinary Surgeon Trailey, Ufa.
- 762 + Posterior phalanges of a horse (*equus caballus*); ligamentous. Presented by Veterinary Surgeon Trailey, Ufa.
- 763 o Internal or laminated structure of the nail or horny hoof of a horse (*equus caballus*). Presented by Veterinary Surgeon Trailey, Ufa.
- 764 o Two nails or hoofs of laminated structure. Showing Presented by Veterinary Surgeon Trailey, Ufa.
- 765 o Vertical section of nail or hoof of a showing thickness of wall and sole. Presented by Veterinary Surgeon Trailey, Ufa.
- 766 o Vertical section of nail or hoof of a mule (*equus asinus caballus*) showing thickness of wall and sole. Presented by Veterinary Surgeon Trailey, Ufa.

No.

- 767 + Cervical vertebrae of a dog (*canis familiaris*). Presented by Dr. F. Schafhirt.
- 769 + Vertical section of os temporum of a horse (*equus caballus*). Presented by Veterinary Surgeon Pringle, Ufa.
- ~~770~~ + Right and left os temporum of a horse (*equus caballus*). Presented by Veterinary Surgeon Pringle, Ufa.
- 771 o Four sound hoofs of a horse (*equus caballus*) after several years shod. A form of hoof remarkable for durability. Presented by Veterinary Surgeon Pringle, Ufa.
- 772 o A sound hoof of a horse (*equus caballus*) properly shod for several years. Presented by Veterinary Surgeon Pringle, Ufa.
- 773 o Four sound hoofs of a horse (*equus caballus*) four years old, never shod. Presented by Veterinary Surgeon Pringle, Ufa.
- 774 o An anterior and a posterior hoof of a horse (*equus caballus*) two years old, properly shod. Presented by Veterinary Surgeon Pringle, Ufa.
- 775 o Inorganic frog (inter-digital cartilage) of a horse (*equus caballus*). Presented by Veterinary Surgeon Pringle, Ufa.
- 776 o Hoofs of a cow (*bos taurus*). Presented by Veterinary Surgeon Pringle, Ufa.
- 777 + Left tarsus and metatarsus of a horse (*equus caballus*) ligamentous. Presented by Veterinary Surgeon Pringle, Ufa.
- 778 o Metacarpus and phalanges of a horse (*equus caballus*) with ligaments, flexor and extensor tendons. Presented by Veterinary Surgeon Pringle, Ufa.

No.

779. + Ligamentous preparation of a foot of a horse (*equus caballus*), with flexor and extensor tendons. Presented by Veterinary Surgeon Trailey, Ufa.
- 780 + Ligamentous preparation of right carpus and metacarpus of a horse (*equus caballus*). Presented by Veterinary Surgeon Trailey, Ufa.
- 781 + Ligamentous preparation of left tarsus of a horse (*equus caballus*). Presented by Veterinary Surgeon Trailey, Ufa.
- 782 + Ligamentous preparation of left carpal articulation of a horse (*equus caballus*). Presented by Veterinary Surgeon Trailey, Ufa.
- 783 + Nail phalanges with cartilaginous hoof of a horse (*equus caballus*). Presented by Veterinary Surgeon Trailey, Ufa.
- 784 + Nail phalanges or bony hoofs, in sections, of a horse (*equus caballus*) exhibiting internal structure. Presented by Veterinary Surgeon Trailey, Ufa.
- 785 + Cartilaginous sole of a hoof of a horse (*equus caballus*). Presented by Veterinary Surgeon Trailey, Ufa.
- 786 + Anterior parts of maxillae of a horse (*equus caballus*) showing alveolae for incisor teeth. Presented by Veterinary Surgeon Trailey, Ufa.
- 792 + Maxillae of a hog (*sus scrofa*) showing dentition. Presented by Dr F. Schaphirt.
- 798 + Articulated right posterior foot of a horse (*equus caballus*). Presented by Dr F. Schaphirt.
- 799 + Articulated right anterior foot of a horse (*equus caballus*). Presented by Dr F. Schaphirt.

No.

- 804 o Siliary calculus of a cow (*bos taurus*). Collected and presented by Dr E. Palmer.
- 805 o Calculus from stomach of camel (*camelus dromedarius*), having a pebble as nucleus. Presented by the Columbian College, Washington, D.C.
- 808 o Lower part of anterior extremity of a horse (*equus caballus*); Skin and hoof removed. Presented by Veterinary Surgeon Trailey.
- 810 o Intestinal calculus of a horse (*equus caballus*). Presented by Veterinary Surgeon J. T. Purdy.
- 813 + Left anterior extremity of a horse (*equus caballus*) articulated with rubber. Presented by Veterinary Surgeon Trailey, U.S.A.
- 814 + Left posterior extremity of a horse (*equus caballus*) articulated with rubber. Presented by Veterinary Surgeon Trailey, U.S.A.
- 816 o Bronchial glands and pleura of a cow (*bos taurus*). Presented by Dr. Gamgee.
- 841 o Generative organs of a hog (*sus scrofa*). Presented by the Georgetown College.
- 873 o Caecum with portions of ileum and colon of a Guinea pig (*cavia cabaya*), exhibiting large development of vermiform process which is six inches long and one and a quarter inches in diameter. Presented by Dr F. Schaphirt.
- 889 + Right front foot of a pig (*sus scrofa*); ligamentous. Purchased.
- 890 + Left hind foot of a hog (*sus scrofa*); ligamentous. Purchased.
- 906 + Cranial vertebrae of a hog (*sus scrofa*). Presented by Dr F. Schaphirt.
- 910 + Calvarium of an antelope (*antilocapra americana*) exhibiting shedding of horns. Presented by Surgeon G. A. Otis, U.S.A.

No.

- 948 + Os penis of Atlantic walrus (*rosmarus obesus*). Presented by Surgeon J. E. Bailey, U.S.A.
- 953 ✓ Five embryos of the American beaver (*castor canadensis*). Presented by Assistant Surgeon H.R. Tilton, U.S.A.
- 1007 + Ligamentous pelvis of a grizzly bear (*ursus arctos horribilis*). Collected and presented by Assistant Surgeon J. P. Kimball U.S.A.
- 1024 ♂ *Strongylus gigas* from the kidney of a dog (*canis familiaris*). Presented by Mr. A. T. Schaffert.
 1029 ♂ *Entozoa found in stomach of opossum* (*Didelphis virginiana*). Presented by Act. Asst. Surg. E. Palmer, U.S.A.
 1041 ♂ Olfactory glands of American skunk (*mephitis mephitis*). Donor unknown
- 1045 ✓ Embryo in uterus of sea lion (*emmetopias stelleri*, Alaska). Collected and presented by Dr J. A. Toner.
- 1046 ✓ Embryo of sea lion (*emmetopias stelleri*, Alaska). Collected and presented by Dr J. A. Toner.
- 1047 ✓ Embryo of sea lion (*emmetopias stelleri*, Alaska). Collected and presented by Dr J. A. Toner.
- 1056 + Os hyoides of fur seal (*callirhinus ursinus*, Alaska). Collected and presented by Dr J. A. Toner.
- 1062 ♂ *Taenia* from intestines of a Canada lynx (*lynx canadensis*). Presented by Act. Asst. Surg. A. J. Comfort, U.S.A.
- 1065 + Os penis of raccoon (*procyon lotor*). Collected and presented by Capt. P. Remington U.S.A.
- 1067 ♂ *Entozoa* found in mesenteric folds of a monkey. Presented by Dr F. Schaffert.
- 1068 ♂ Hairball from stomach of an ox (*bos taurus*).
- 1083 + Os hyoides of a prairie wolf (*canis latrans*, Missouri). Presented by Dr F. Schaffert.
- 1138 ♂ *Taenia* from intestines of a marsh rabbit (*lepus palustris*). Presented by Dr H. L. Yarrow.
- 1177 ♂ Organ of respiration and liver of a cat (*felis domesticus*). Received in exchange from the Smithsonian Institution.
- 1181 ♂ Hairball from the stomach of an American elk (*cervus canadensis*). Received in exchange from the Smithsonian Institution.
- 1184 ♂ Penis of a whale (). Presented by Dr J. L. Rose.

No.

- 1189 + Foot of a pig (*sus scrofa*) with seven toes. Received in exchange from the Smithsonian Institution.
- 1195 + Os hyoides of American buffalo (*bos americanus*). Presented by Assistant Surgeon J. M. Brewer U.S.A.
- 1209 o Cast of anterior foot of a horse (*equus caballus*) showing arteries, veins, tendons, nerves and ligaments. Purchased
- 1217 o Hairball from stomach of a cow (*bos taurus*). Presented by Mr. James I. King.
- 1218 x Four malformed feet of a pig (*sus scrofa*); the front feet are clubbed with the hind toes abducted externally. The hind feet are well developed, the front toes being joined together forming a single hoof. Presented by Captain A. v. Cherbonnier, Medical Storekeeper U.S.A.
- 1219 o Encephalon of a pig (*sus scrofa*). Purchased.
- 1220 o Encephalon of an opossum (*didelphys virginianus*). Purchased.
- 1224 o Encephalon of a dog (*canis familiaris*). Presented by Dr. F. Schaphirt.
- 1234 o Encephalon of a rat (*mus decumanus*). Presented by Dr. F. Schaphirt.
- 1245 o Hairball from stomach of an ox (*bos taurus*). Received in exchange from the Smithsonian Institution.
- 1254 + Leg of a sheep (*ovis aries*) with three feet. Received in exchange from the Smithsonian Institution.
- 1263 o Hairball from stomach of a cow (*bos taurus*). Presented by Surgeon P. J. D. Irwin U.S.A.
- 1270 v Three embryos from a cat (*felis domesticus*). Presented by Dr. E. M. Schaeffer.
- 1290 o Hairball from the stomach of a calf (*bos taurus*). Presented by Assistant Surgeon J. M. Norton U.S.A.

No.

- 1364 v Hairball from the stomach of a Texas steer (*Bos taurus*). Presented by Hospital Steward J. L. Felt, *u.s.a.*
1366. + Os penis of a Kit or swift fox (*Vulpes velox*). Collected and presented by Assistant Surgeon E. Coues, *u.s.a.*
- 1411 v Three embryos from a prairie dog (*Cynomys ludovicianus*) from the Indian Territory. Presented by Assistant Surgeon P. J. A. Cleary, *u.s.a.*
- 1416 v Head of a foetal Kangaroo () and teat of the dam. Collected in Australia by Mr J. H. Goswell, and Presented by Assistant Surgeon J. A. Fitzgerald, *u.s.a.*
- 1423 + Os penis of Missouri badger (*Taxidea americana*). Collected and presented by Assistant Surgeon E. Coues, *u.s.a.*
- 1440 o Intestinal calculus from a horse (*Equus caballus*). Presented by Dr E. Sterling.
- 1441 o Intestinal calculus from a horse (*Equus caballus*). Presented by Dr E. Sterling.
- 1523 o Skin of an armadillo (). Presented by Assistant Surgeon A. B. Campbell, *u.s.a.*
- 1524 v Two embryos from an armadillo (). Presented by Asst. Surgeon A. B. Campbell, *u.s.a.*
- 1526 o Hairball from the stomach of a calf (*Bos taurus*). Presented by Acting Assistant Surgeon James R. Reilly.
- 1557 o Hairball from the stomach of a cow (*Bos taurus*). Presented by Assistant Surgeon W. F. Buchanan, *u.s.a.*
- 1591 o " " found in intestines of a cat (*Felis domestica*). Presented by Asst. Asst. Surg. D. S. Lamb.
1721. v Embryo of antelope (*Oreotragus americana*). Presented by Assistant Surgeon W. S. Tremaine, *u.s.a.*

No.

- 1722 x Hairball from the stomach of a heifer (*bos taurus*). Presented by Assistant Surgeon F. H. Aiken, U.S.A.
- 1737 x Hairball from the stomach of a cow (*bos taurus*). Presented by Mr. George J. Gibbs
- 1754 x Two large urinary[?] calculi from a horse (*equus caballus*). Presented by Mr. Pencinger
- 1755 v Two ovi with embryos from a Jackass rabbit (*lepus capensis*). Presented by Hospital Steward S. Kitching U.S.A.
- 1996 x Hairball from the stomach of an ox (*bos taurus*). Received in exchange from the Smithsonian Institution
- 2081 x Hoof of "mule-footed pig" (*sus scrofa*). Presented by Mr. G. H. Marnock.
- 2204 x Three feet of a pig (*sus scrofa*), one with five and two with six toes. Presented by Mr. J. D. Gibbs.
- ~~2205~~ x Hairball from the stomach of a cow (*bos taurus*). Received in exchange from the Smithsonian Institution.
- 2222 v Embryo of one month of a cow (*bos taurus*). Presented by Assistant Surgeon E. J. Conzys, U.S.A.
- 2237 x Gall of matter rejected from the stomach of a white tailed deer (*cariacus virginianus macrourus*). Presented by Assistant Surgeon C. E. Price, U.S.A.
- { 2055 x Salivary calculus from the parotid gland of a mule (*equus caballus asinus*). Received in exchange from the Smithsonian Institution
- { 2057 x Lumbricoid (?) from the liver of a dog (*canis familiaris*) Presented by Mr. N. J. Coffin
- 2462 v Foetus of about three months growth from a mule (*equus asinus caballus*). Presented by Surgeon H. E. Brown, U.S.A.
- 2467 v Foetus from a horse (*equus caballus*) Presented by Dr. Carroll Morgan

LIST OF CRANIA AND SKELETONS OF FOREIGN
AND DOMESTIC MAMMALS.

monstruities

CLASS **MAMMALIA.**

SUB-CLASS **Placentalia.**

SUPER-ORDER **EDUCABILIA.**

ORDER **Feræ.**

SUB-ORDER **FISSIPEDIA.**

Family **FELIDÆ**: Cats, etc.

Sub-Family **Felineæ**: Typical Cats.

Felis domesticus, Linn. Common Cat.

Date	Cran.	Skel.	Sex.	Local.	Coll.	Donor.
		580				
		63	Imm	Waculath		Col. K. Knapp
		683	"	New Mexico		Gov. R. B. Mitchell
		1176	"			Smithsonian Inst.
		1259	"			Smithsonian Inst
		1260	"			" "
		1261	"			" "
		1321.		Wash. D.C.		Hosp. Sten. Kennedy
		1368.				Thos. F. Mc Kean
May 1878		2170.	Imm	[Bb. Randal. Dak]	W. A. C. Girard. W. A.	
Sept 1878		2184.		Wash. D.C.	Same. Shepherd Esq	
				Notes by	Dr. F. Schapfer.	

no 580 a young specimen with two
faces.

no 683. " " " "

No 1176 A young specimen with two bodies eight-
legs & one head.

No 1259 A young specimen, the cranium
slightly larger than a pistol
but a small capsule, without face
the & with a very minute rudimentary
inferior maxilla.

No 1260 A young specimen with mal-
formed cranium, the nasal bones
forming a proboscis one inch long;
a single orbit beneath the nose;
the superior maxilla rudimentary,
the inferior curving upwards in
anterior third.

No 1261 A young specimen with double
face. In front & between the faces
is a single orbit sufficiently large
for two eyes; two mouths forming
one cavity, inferior maxilla on
anterior aspect is about one inch
square.

No 1321 A young specimen with double
face.

No 1368 A young specimen with two
bodies.

No. 2170. A young specimen, two perfect bodies, one cranium

four ears & three eyes; one eye between occipital bones.

No 2184 A young specimen with two perfect bodies
& normal cranium.

Canis familiaris Linn
Common Dog.

Date	Cran.	Skel.	Sex.	Local.	Coll.	Donor.
		1258	Imm			Smithsonian Institution
Feb. 1878		2067	"	Wash. - W.C.	Dr J. C. Fennell	
May "		2153	"	" "	Mr Ferguson	

No 1258 A young specimen having five legs. The right "os innominatum" has two acetabuli + two legs, the additional leg has two feet

No 2067 Three ossa innominata + five legs.

No 2153 Malformed cranium -

ORDER Ungulata.
SUB-ORDER ARTIODACTYLI.
Family BOVIDÆ: Bovines.
Sub-Family Bovinae: Typical Bovines.

Date	Cran.	Skel.	Sex.	Local.	Coll.	Donor.
		1712	♀	Wash. W.C. Ft. Shaw Marine	Dr F. Schaphert A. Surg. J. C. Merritt U.S.A.	J. L. Weathering
Apr 1860	2393					

No 1712 A young specimen with six legs

Bos taurus, Linné

The whole Animal is normale, but the spinous processes of the 2nd, 3rd & 4th dorsal vertebrae are firmly united, and are in form like a Scapula, while the upper ^{part} of said processes and united by a strong interspinous ligament, and hanging on the left side of the thorax, is an additional pelvis, of which the lower innominatum is normale, and the other only rudimentary terminates in two irregular spinous processes, connected with this pelvis are two additional Legs, of which one hanging over on the right side of the thorax is a hind leg 32 inches long and has two feet, the other leg hanging on the left side is a front leg and only 21 inches long, all articulations on the additional Legs are ankylosed

Dr. Schaphert

No 2393 Perfect double crania.

Family ANTILOCAPRIDÆ: American Antelopes.

Antilocapra americana (Ord.). Antelope; Prong-horn.
Antelope; Cubree.

Date	Cran.	Skel.	Sex.	Local.	Coll.	Donor.
1868	680			Fort Rice Dawson	Capt. J. Hartley	Mr C. E. Goetz ^{also} W. J. F. Smithsonian Inst.
	1257					

No 680 A young hemicephalous specimen with two perfect fangs.

No 1257 Malformed foetal cranium

The superior maxilla is so greatly depressed anteriorly, that the alveolar borders meet underneath & have formed thereby a deep fossa instead of a palatine plate. The specimen was linguelless & the inferior maxilla extremely rudimentary & small.

Family SUIDÆ: Swine.

Sus scrofa, Linn. Common Hog.

Date	Cran.	Skel.	Sex.	Local.	Coll.	Donor.
	579					Unknown
	853					Smithsonian Inst
	856					" "
	791					" "
	1253					" "
	1255		Imm			" "
Date 1873	1256		"	Fort. McRae Wm.		" " " "

Date 1880	2385			Smyrna Tenn.	Dr. H. J. Warmuth.
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No 579 Specimen with 2 faces ~~description~~
 " 791 ~~2~~ ³ ~~specimens~~ ^{spec.} ~~double headed~~

No 853 - ~~One~~ specimen with seven legs
 + eight feet -

No 856 A specimen with two heads.

No 1178 Specimen with two heads eight legs + one head

No 1253 A specimen with eight legs
 + four sets of ribs, two sterna. The
 two thorax form but one cavity. One

cranium, ~~no~~ inferior maxilla
 wanting.

No 1255 ^{young} ~~specimen~~ with a mal-
 formed cranium having a proboscis
 two inches long formed by nasal
 bones, beneath which is a double
 orbit - one inch in length + below
 it a flat + rudimentary superior
 maxilla. The inferior maxilla
 has a curvature in the anterior
 third upwards.

No 1256 A young specimen with
 malformed head, the cranium
 having a very small cavity for
 cerebellum, no facial bones, the
 inferior maxilla not developed.

No 1275 A young specimen in
 which the cranium is round

the proboscis long & curved up-
wards & backwards, resting
on top of it; no orbits, no zygo-
matic arches, the inferior max-
illa being a short bridge from
side to side

No 1320 A young specimen with deformed
cranium.

No 2345

SUPER-ORDER **INEDUCABILIA.**
ORDER **Glires.**
SUB-ORDER **SIMPLICIDENTATI.**
Family CAVIIDE: Cavies, etc.
Cavia cabaya, Linn. Guinea Pig.

Cran.	Skel.	Sex.	Local.	Coll.	Donor.
	872	♀			Purchased

No 872 Adult specimen with both
clavicles rudimentary

Miscellaneous specimens of and
from Mammalia.

CLASS **MAMMALIA.**
SUB-CLASS **Placentalia.**
SUPER-ORDER **EDUCABILIA.**
ORDER **Ferae.**
SUB-ORDER **FISSIPEDIA.**
Family **FELIDÆ**: Cats, etc.
Sub-Family *Felinæ*: Typical Cats.

Felis domesticus, Linn. Common Cat.

No.	Object.	Sex.	Local.	Coll.	Donor.
22	Uriduct with 3 embryos		Wash. D.C.		Dr. F. Schaphir
1177	Organs of Respir. & Circ.		" " "		Smithsonian Institution
1270	Uriduct with 3 embryos		" " "		Dr. F. M. Schaffer

Family **CANIDÆ**: Dogs, Wolves, etc.
Sub-Family *Caninæ*: Typical Dogs.

Canis latrans, Say. Coyote; Prairie Wolf.

No.	Object.	Sex.	Local.	Coll.	Donor.
1083	Urohyoides		Missouri		Dr. F. Schaphir

Canis familiaris, Linn. Common Dog.

No.	Object.	Sex.	Local.	Coll.	Donor.
30	Uterus	♂	Wash. D.C.		Dr. J. S. Billings
767	Cranial Vertebrae		" " "	Dr. F. Schaphir	Dr. F. Schaphir
72	Uterus & appendages	♀	" " "	" " "	" " "
1224	Encephalon		" " "	" " "	" " "

Sub-Family *Vulpinae*: Foxes.
Vulpes vulgaris pennsylvanicus, Cs. *Red Fox*.

No.	Object.	Sex.	Local.	Coll.	Donor.
1863 100	Os penis	♂	Wash. D.C.		Mr. F. Schaphius

Vulpes velox, And. and Bach. *Kit Fox*; *Swift Fox*.

No.	Object.	Sex.	Local.	Coll.	Donor.
1366	Os penis.	♂		Mr. E. Coues ^{USA}	Mr E. Coues USA

Family *MUSTELIDAE*: Weasels, etc.
 Sub-Family *Melinae*: Badgers.
Taxidea americana (Bodd), Baird. *Missouri Badger*.

No.	Object.	Sex.	Local.	Coll.	Donor.
1423	Os penis	♂		Mr E. Coues USA	Mr. E. Coues USA

Sub-Family *Mephitinae*: Skunks.
Mephitis mephitis (Shaw), Baird. *American Skunk*.

No.	Object.	Sex.	Local.	Coll.	Donor.
1041	Odoriferous glands	♂			Unknown.

Family URSIDÆ: Bears.
Ursus arctos horribilis (Ord.), Cs. and Yar. Grizzly Bear.

Date	No.	Object.	Sex.	Local.	Coll.	Donor.
	176	Hand.				Purchased.
	177	Foot				"
1868	1007	Ligamentum pelvis.		Fort Buford Wacotah	Wm J. P. Kimball	Wm J. P. Kimball U.S.A.

Family PROCYONIDÆ: Raccoons, etc.
Sub-Family Procyoninae: Typical Raccoons.
Procyon lotor (Linn.), Starr. Common Raccoon.

Date	No.	Object.	Sex.	Local.	Coll.	Donor.
	625	Os penis	♂			A. K. Ferris U.S.A.
1	1065	" "	♂	Fort Pike La.	Capt P. Remington	Capt. Remington U.S.A.

SUB-ORDER PINNIPEDIA.
Family OTARIIDÆ: Eared Seals.
Callirhinus ursinus (Schreber), Gray. Fur Seal.

Date	No.	Object.	Sex.	Local.	Coll.	Donor.
1870	1056	Os hyoides.		St George Island Alaska	Dr J. A. Tonner	Wm. J. A. Tonner

Eumetopias stelleri (Fischer), Gray. Sea Lion.

Date	No.	Object.	Sex.	Local.	Coll.	Donor.
1870	1045	Embryo in vagina		St George Island Alaska.	Dr J. A. Tonner	Wm J. A. Tonner
	1046	Embryo		"	"	" " " "
	1047	"		"	"	" " " "

Family ROSMARIDÆ: Walruses.
Rosmarus obesus (Illiger), Gill. Atlantic Walrus.

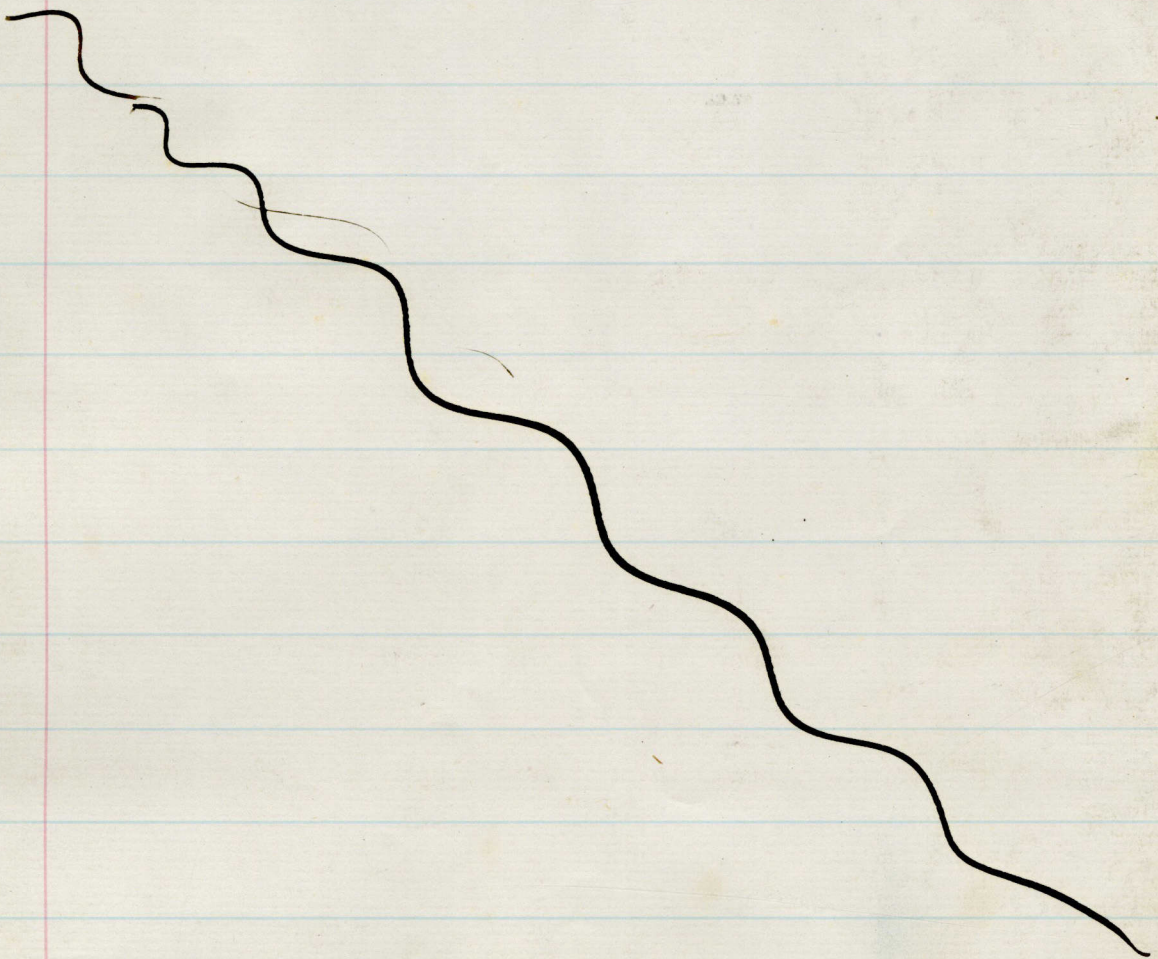
No.	Object.	Sex.	Local.	Coll.	Donor.
948	Os penis	♂			Dr. J. E. Bailey U.S.A.

ORDER Ungulata.
SUB-ORDER ARTIODACTYLI.

Family Camelidae Camels &
Camelus dromedarius dromedarius
Lin. Camel

No.	Object.	Sex.	Local.	Coll.	Donor.
805	Calculus from stomach having pebbles as nucleus.				Columbia College

49.



Family BOVIDE: Bovines.
Sub-Family Bovina: Typical Bovines.
Bos americanus (Gmelin), American Buffalo.

No.	Object.	Sex.	Local.	Coll.	Donor.
159	Costa bipida				Smithson Inst.
160	" fuscata				" "
1195	Os hyoides				Mr. J. W. Bremer U.S.A.

Bos taurus (Linn.), Cuvier. Cow.

No.	Object.	Sex.	Local.	Coll.	Donor.
638 638	Hairball	♂			Smithson Inst.
639	" "	♀			" "
650	" "	♀			Mr J. H. Bach
651	" "	♀			" " "
670	Median Axis	♂	Moreno Mines N.M.	Mr. B. B. Miles	Mr. B. B. Miles
677	Hairball	♂	Fort Richardson Texas.	Mr B. B. Miles	Mr B. B. Miles
695	"	"	"	"	" " " "
699	"	"	"	"	" " " "
776	Horns	♀			Dr Brailey
804	Biliary calculus.	♀	Cherokee Town	Mr E. Palmer	Mr. E. Palmer.
816	Tubercles of Bronchial glands & Pleura	♀			Mr Samsel,
1068	Hairball	♂			Mr W. Watson U.S.A.
1217	"	♀	Wash. D.C.		Dr J. King.
1245	"	♂			Smithson Inst.
1873 | 1263	"	♀	Fort Riley Kansas	Mr B. B. Miles U.S.A.	Mr B. B. Miles U.S.A.
1290	"	♀	Fort McRae Texas	Mr S. M. Norton	Mr S. M. Norton U.S.A.
1364	"	♂	Kansas City Mo.		Mr. S. M. Norton U.S.A.
1526	"	♀			Mr. J. R. Reilly
1557	"	♀			Mr. W. F. Buchanan U.S.A.
1722	"	♀			A. Surg. F. D. Aiken U.S.A.
1737	"	♀	Wash. D.C.		Geo. J. Gibbs Esq.
1996	"	♂			Smithson Inst.
1875 | 2005	"	♀	Wash. D.C.		"
2222	Embryo 1mm		Fort Clark Texas	A. Surg. Conroy U.S.A.	

* all the hairballs are from the stomachs of the animals.

Sub-Family Ovinæ: Sheep.
Ovis aries, Linn. Common Sheep.

No.	Object.	Sex.	Local.	Coll.	Donor.
128	Encapshalm	♂	wasn - N.C.	Dr F. Schaplin	Dr F. Schaplin.
581	Embryos		" "	" "	" "
1254	Three fur- up on the leg.				Smithson Inst.

Family ANTILOCAPRIDÆ: American Antelopes.
Antilocapra americana (Ord.). Antelope; Prong-horn
Antelope; Cabree.

No.	Object.	Sex.	Local.	Coll.	Donor.
910	Calvarium exhibiting shedding of horns.				Dr Geo. A. Utis u.s.a
1721	Embryos 2				Appt Surg. W.D. Tremain ^{usa}

Family CERVIDÆ: Deer.
Sub-Family Cervinæ: Typical Deer.
Cervus canadensis, Erxl. American Elk; Wapiti.

Date	No.	Object.	Sex.	Local.	Coll.	Donor.
	676	Calvarium	♂			Wm. J. C. McKee u.s.a
1868	721	Embryos		Fort Buford Wacotah	Wm. J. P. Kimball ^{usa}	Wm J. P. Kimball ^{usa}
	1181	Hairball from stomach				Smithson Inst.

Cariacus virginianus (Bodd), Gray. Virginia Deer; Red
Deer.

Date	No.	Object.	Sex.	Local.	Coll.	Donor.
1868	685	Embryos		Fort Stevenson Wacotah		Wm C. C. Gray u.s.a
Cariacus virginianus macrurus (Raf) Cuv white tailed Deer						
Apr 1879	2237	Ball of regis- tered for stomach		Fort Gaston	Appt. Surg	C. E. Rice u.s.a.

Family Suidæ: Swine.
Sus scrofa, Linn. Common Hog.

No.	Object.	Sex.	Local.	Coll.	Donor.
841	Generative organs	♂	Wash. D.C.		Georgetown College
889	Right femur		" "		Purchased
906	Cranial vertebrae		" "		Dr. F. Schaphner
890	Left hind femur				Purchased
792	Sigamentum nuchæ showing dentition		Wash. D.C.		Dr. F. Schaphner
1189	Foot with seven toes				Smithsonian Inst.
1218	See notes		San Antonio Texas	Capt. J. V. Charbonnier	Capt. J. V. Charbonnier
1219	Encephalon		Wash. D.C.		Purchased
2204	Abdominal part of male		Philas Texas		J. W. G. B. - G. W. M. - G. W. M.
2081	The specimen No 1218 is a male -				

formation of the four feet of one animal. The front feet are hooked with the hind toes abducted externally; the hind feet are well developed, the front toes being joined together forming a single hoof.

2081 is four bones of skull joined together.

SUB-ORDER PERISSODACTYLI.
Family EQUIDÆ: Horses, etc.
Equus caballus, Linn. Horse.

No.	Object.	Sex.	Local.	Coll.	Donor.
636	Calculus ^{See note}				Smithsonian Inst.
637	Hairball				" "
641	Calculus see note				" "
642	Calculus				" "
646	"				Dr. J. H. Bache
647	"				" " "
648	"				" " "
649	Hairball				

Put in proper sequence

No.	Object.	Sex.	Local.	Coll.	Donor.
645	Calculus				Dr H. Bache
661	"				Univ. of Virginia
689	See note				Wm. Brailey Ver. Say.
690	"				" " " "
691	"				" " " "
692	See note				" " " "
693	" "				" " " "
694	Foot-skin removed				" " " "
695	See note				" " " "
696	" "				" " " "
697	Ossicle auditis				" " " "
688	See note				" " " "
744	" "				" " " "
745	" "				" " " "
746	" "				" " " "
747	" "				" " " "
748	" "				" " " "
749	" "				" " " "
750	" "				" " " "
751	" "				" " " "
752	" "				" " " "
753	" "				" " " "
754	" "				" " " "
756	" "				" " " "
757	" "				" " " "
758	" "				" " " "

No.	Object.	Sex.	Local.	Coll.	Donor.
759	See note				Wm Brailey ^{usa} Vet Surg
760	" "				" " " "
761	" "				" " " "
762	" "				" " " "
763	" "				" " " "
769	" "				" " " "
770	" "				" " " "
771	" "				" " " "
772	" "				" " " "
773	" "				" " " "
774	" "				" " " "
775	" "				" " " "
777	" "				" " " "
778	" "				" " " "
779	" "				" " " "
780	" "				" " " "
781	" "				" " " "
782	" "				" " " "
783	" "				" " " "
784	" "				" " " "
785	" "				" " " "
786	" "				" " " "
798	" "		Wash. D.C.		Wm. F. Schaphorst
799	" "				Wm. Brailey ^{usa}
808	" "				Wm Brailey ^{usa} Vet Surg.

No.	Object.	Sex.	Local.	Coll.	Donor.
810	Intestinal Calculus				Dr Z. V. Purdy ^{Mr. Surg}
813	See note				Dr Bradley ^{Mr. Surg}
814	" "				" " " "
1209	" "				Purchard
1440	Intestinal Calculus		Cleveland Ohio	Dr E. Sterling	Dr E. Sterling
1441	" "		" "	" "	" " "
1754	Urinary? Calculus		Wash. D.C.		Bensinger Esq

55 page

Notes -

Description of specimens.

All the Calculi & Hairballs unless otherwise mentioned were found in the stomachs of the animals.

No. 641 The nucleus of this specimen is a small pebble swallowed by the animal.

No. 636 The nucleus is a nail.

No. 689 Arteries, veins, plexus & extensor tendons inserted into the cartilaginous hoof after removal of all the bones.

No. 690 Cartilaginous Hoof.

No. 691 Two feet exhibiting the laminated (sensitive) folds in healthy condition.

No. 692 Vertical section of phalanges. Ligamentous preparation.

No. 693 Right carpus, showing Tendons, Arteries, Veins, & Ligaments.

No. 695 Vertical sections of front & hind feet.

- No. 696 Two feet prepared to exhibit. The laminated (sensitive) folds, coronary border, & glandular system of the hoof in healthy condition.
- No. 688 Supernumerary bones of carpal articulation
- No. 744 Anterior parts of maxillate showing teeth at five years.
- No. 745 " " " " "
- " " six "
- No. 746 " " " " "
- " " eight "
- No. 747 " " " " "
- " " nine "
- No. 748 " " " " "
- " " ten "
- No. 749 " " " " "
- " " eleven "
- No. 750 " " " " "
- " " twelve "
- No. 751 " " " " "
- " " sixteen "
- No. 752 " " " " "
- " " eighteen "
- No. 753 " " " " "
- " " twenty "
- No. 754 Sept carpal articulation Ligamentous.

- No. 756 Anterior phalanges. Ligamentous.
- No. 757 " " "
- No. 758 " " articulated with Rubber.
- No. 759 Posterior " " " "
- No. 760 Anterior " Ligamentous.
- No. 761 Posterior " "
- No. 762 " " "
- No. 763 Internal or laminated structure of the nail or horny hoof.
- No. 769 Vertical section Os temporum.
- No. 770 Right & left " na.
- No. 771 Four sound hoofs, shod for several years. A form of hoof remarkable for durability.
- No. 772 A sound hoof properly shod for several years.
- No. 773 Four sound hoofs from animal four years old; never shod.
- No. 774 Anterior & posterior hoofs of animal two years old; properly shod.
- No. 775 Inorganic frag (interungual cartilage)
- No. 777 Sept tarsus & metatarsus. Ligamentous
- No. 778 Metacarpus & phalanges with liga-
ments, flexor & extensor tendons.
- (57) No. 779 Ligamentous preparation of foot with flexor & extensor tendons.

- No. 780 Ligamentous preparation of right
carpus + metacarpus.
- No. 781 " " " left
tarsus.
- No. 782 " " " left
carpal articulation.
- No. 783 Nail phalanges with cartilagineous hoof.
- No. 784 " " or bony hoofs in section
showing internal structure of same.
- No. 785 Cartilagineous sole of hoof.
- No. 786 Anterior parts of maxillae showing
alveolate for incisor teeth.
- No. 798 Articulated right posterior foot.
- No. 799 " " anterior "
- No. 808 Lower part of anterior epithermy;
skin + hoof removed.
- No. 813 Left anterior epithermy articulated
with rubber
- No. 814 " posterior " "
- " "
- No. 1209 Cast of foot showing Arteries, Veins,
Nerves, Tendons + Ligaments.

No.	Object.	Sex.	Local.	Coll.	Donor.
755	See note				Wm. Brailey ^{when} Ver. Eng
764	" "				" " " "
765	" "				" " " "
766	" "				" " " "
2055	^{Selling} Columbus Hawthorn gland				Smithsonian Institution
<u>No. 755</u>	Notes Wes. inst. of specimen Anterior phalanges of foot with lateral + true cartilages of heel.				
<u>No. 764</u>	Two nails or hoofs showing lami- nated structure.				
<u>No. 765</u>	Vertical sections of nail or hoof, showing thickness of wall & sole.				
<u>No. 766</u>	"	"	"	"	"
	"	"	"	"	"

Family Rhinocerotidae
? Rhinoceros

No.	Object.	Sex.	Local.	Coll.	Donor.
640	Piece of Tanned Hide				Smithsonian Institution

Order Proboscidea
Family Elephantidae ^{Mastodontidae}

No.	Object.	Sex.	Local.	Coll.	Donor.
645	^{Gigante} Anterior Tooth		Texas		
678	Fossil Molar Tooth				G. M. Guine

Order Cete

? Suborder Mysticete
 ? Family Balaenopteridae
 ? Whale

No.	Object.	Sex.	Local.	Coll.	Donor.
660	Calculus from stomach				University of Virginia
1184	Penis	♂			Dr. J. Irving Rose

ORDER Glires.

SUB-ORDER SIMPLICIDENTATA.

Family MURIDÆ: Mice.

Sub-Family Murinæ: Typical Mice.

Mus decumanus, Pallas. Common Rat.

No.	Object.	Sex.	Local.	Coll.	Donor.
1234	Encephalon		Wash. D.C.	Dr. F. Schapher.	Dr. F. Schapher.

Family CASTORIDÆ: Beavers.

Castor canadensis, Kuhl. American Beaver.

Date	No.	Object.	Sex.	Local.	Coll.	Donor.
1870	953	Five Embryos		Fort Lyon Colorado	Dr. H. R. Tilton	Dr. H. R. Tilton USA

Family SCIURIDÆ: Squirrels, etc.
Sub-Family Sciurinae: Typical Squirrels.

Sciurus carolinensis, Gmelin. Gray Squirrel.

No.	Object.	Sex.	Local.	Coll.	Donor.
122	Encephalon	♀	Wash. D.C.	Dr. F. Schapher	Purchased

Cynomys ludovicianus (Ord.), Bd. Prairie Dog.

No.	Object.	Sex.	Local.	Coll.	Donor.
1874 1411	Three Embryos		Camp Supply Indian Terr.	Dr. P. A. Cleary U.S.A.	Dr. P. A. Cleary U.S.A.

Family CAVIIDÆ: Cavies, etc.
Cavia cabaya, Linn. Guinea Pig.

No.	Object.	Sex.	Local.	Coll.	Donor.
873	Intestines see note		Wash. D.C.		Dr. F. Schapher

873 ^{note} Caecum with portions of Stomach & Colon exhibiting large development - of vermiform process which is six inches long & 1 1/4 inches in diameter

SUB-ORDER DUPLICIDENTATI.

Family LEPORIDÆ: Rabbits, Hares, etc.

Lepus sylvaticus, Bach. Eastern Gray Rabbit.

No.	Object.	Sex.	Local.	Coll.	Donor.
121	Encephalon	♂	Wash. D.C.	Dr. F. Schapher	Purchased
1755	Unicute embryos		Lepus callotis Wayne Dark Rabbit.	Dr. S. S. Kitchen U.S.A.	

ORDER Bruta.
SUB-ORDER ~~TARDIGRADA~~

Son'cata

Family : Wasyrodi'dae

Annadillo

No.	Object.	Sex.	Local.	Coll.	Donor.
1523	Skin				Wm. A. B. Campbell ^{USA}
1524	^{Two} Embryos				" " " " "

SUB-CLASS Didelphia.
ORDER Marsupialia.

SUB-ORDER SYNDACTYLI.

Family Macropodi'dae

No.	Object.	Sex.	Local.	Coll.	Donor.
1416	Head of Possum Kangaroo + Tail of same		Australia Sept. 1872	J. H. Boswell	Wm. A. Fitzgerald ^{USA}

SUB-ORDER DIDELPHIMORPHIA.

Family DIDELPHIDÆ: Opossums.

Didelphys virginianus, Shaw. Common Opossum.

No.	Object.	Sex.	Local.	Coll.	Donor.
1220	Encephalon		Wash. D.C.,	Dr. F. Schepherd	Purchased

WILLIAM L. BROWN
OF
THE
FEDERAL BUREAU OF INVESTIGATION
WASHINGTON, D. C.